

Memorandum

Date : February 29, 2000
Telephone: ATSS ()
(916) 654-4996
File: Contra Costa DA.Doc

To : William J. Keese, Chairman
Michal C. Moore
Robert A. Laurie
Robert Pernell

From : California Energy Commission - Kent Smith
1516 Ninth Street Acting Executive Director
Sacramento, CA 95814-5512

Subject : **DATA ADEQUACY RECOMMENDATION FOR THE CONTRA COSTA POWER
PLANT UNIT 8 PROJECT - (00-AFC-1)**

The staff has completed its data adequacy review of the AFC submitted on January 31, 2000. I have determined that the AFC does not contain all the information required by Cal. Code of Regs., tit. 20, § 1704, Appendix B. Attachment A contains an overview of whether each technical discipline evaluated is adequate or inadequate. Attachment B contains staff's detailed data adequacy worksheets which describe staff's findings for each information requirement that is inadequate. The applicant intends to file its application for Determination of Compliance with the Bay Area Air Quality Management District within the first week of March, 2000. The Air District will have 30 days from receipt of the application to conduct their completeness review and findings.

At the Energy Commission's business meeting on March 15, 2000, I will be recommending that the Energy Commission not accept the AFC until all the additional information specified in Attachment B is supplied. Pursuant to Cal. Code of Regs., tit. 20, § 1709 (c), if the Energy Commission accepts my recommendation, the Energy Commission shall indicate, in writing, those parts of the AFC which fail to meet the information requirements and the manner in which it can be made complete. Furthermore, I recommend that the Commission require that the applicant provide 125 copies of a complete supplement, and a statement verifying that the supplement is complete and contains the data that addresses all the identified data deficiencies.

If you have any questions, please call Jim McKinney, staff's Project Manager, at (916) 654-3999.

KS:jm

Attachments

cc: Emilio Varanini, Counsel to Applicant
Robert Hayes, VP, Southern Energy Delta, LLC

ATTACHMENT A
OVERVIEW OF ENERGY COMMISSION STAFF'S
DATA ADEQUACY DETERMINATION
CONTRA COSTA POWER PLANT UNIT 8 PROJECT- (00-AFC-1)

TECHNICAL AREA	ATTACHMENT B PAGE No.	ADEQUATE?
Air Quality	1	No
Alternatives	5	No
Biological Resources	6	No
Cultural Resources	10	No
Efficiency	13	Yes
Facility Design	15	No
Geological Hazards	18	Yes
Hazardous Materials Handling	20	Yes
Land Use	22	No
Noise	28	No
Paleontological Resources	31	Yes
Project Overview	33	No
Public Health	37	Yes
Reliability	39	No
Socioeconomics	41	No
Soils	44	Yes
Traffic and Transportation	46	No
T-Line Safety and Nuisance.	49	Yes
Transmission System Eng.	52	No
Visual Resources	55	No
Waste Management	58	Yes
Water Resources	61	No
Worker Safety	65	No

ATTACHMENT B

**ENERGY COMMISSION STAFF'S
List of Data Inadequacies**

CONTRA COSTA POWER PLANT UNIT 8 PROJECT

00-AFC-1

February 29, 2000

Adequacy Issue: Adequate _____ Inadequate **x**

Technical Area: **Air Quality**

Project Manager: Jim McKinney

DATA ADEQUACY WORKSHEET

Project: Contra Costa

Docket: 00-AFC-1

Revision No. 1 Date February 14, 2000

Technical Staff: Guido Franco & Gabriel D. Behymer

Technical Senior: Keith Golden

SITING REGULATIONS	INFORMATION	AFC PAGE NUMBER AND SECTION NUMBER	ADEQUATE YES OR NO	INFORMATION REQUIRED TO MAKE AFC CONFORM WITH REGULATIONS
Appendix B (g) (1)	...provide a discussion of the existing site conditions, the expected direct, indirect and cumulative impacts due to the construction, operation and maintenance of the project, the measures proposed to mitigate adverse environmental impacts of the project, the effectiveness of the proposed measures, and any monitoring plans proposed to verify the effectiveness of the mitigation.	8.1.1 (pg. 8.1-2), 8.1.2 (pg. 8.1-4), 8.1.3 (pg. 8.1-14), 8.1.4 (pg. 8.1-15), Tables 8.1-[1-5] (pg. 8.1-[33-35]), & Confidential Submittal	Yes	
Appendix B (g) (8) (A)	The information necessary for the air pollution control district where the project is located to complete a Determination of Compliance.		No	Please provide a letter from the BAAQMD indicating whether the application they have received is complete.
Appendix B (g) (8) (B)	The heating value and chemical characteristics of the proposed fuels, the stack height and diameter, the exhaust velocity and temperature, the heat rate and the expected capacity factor of the proposed facility.	2.2.5.2 (pg. 2-20), 8.1.2.3 (pg. 8.1-7), Table 8.1-13 (pg. 8.1-41), & Table 2-3 (pg. 2-23)	Yes	
Appendix B (g) (8) (C)	A description of the control technologies proposed to limit the emission of criteria pollutants.	2.2.10 (pg. 2-40)	Yes	
Appendix B (g) (8) (D)	A description of the cooling system, the estimated cooling tower drift rate, the rate of water flow through the cooling tower, and the maximum concentrations of total dissolved solids.	2.2.7 (pg. 2.34), 2.2.7.1 (pg. 2-34), & Table 8.14-5 (pg. 8.14-31)	Yes	
Appendix B (g) (8) (E)	The emission rates of criteria pollutants from the stack, cooling towers, fuels and materials handling processes, delivery and storage systems, and from all secondary emission sources.	8.1.2.2 (pg. 8.1-6), Tables 8.1-[9-11] (pg. 8.1-[38-39]), 2.2.7.1 (pg. 2.34) 8.12 (pg. 8.12-1), & 8.10.2.3 (pg. 8.10-10)	Yes	
Appendix B (g) (8) (F)	A description of typical operational modes, and start-up and shutdown modes for the proposed project, including the estimated frequency of occurrence and duration of each mode, and estimated emission rate for each criteria pollutant during each mode.	8.1.2.2 (pg. 8.1-6), & Tables 8.1-[9-11] (pg. 8.1-[38-39])	Yes	

Adequacy Issue: Adequate _____ Inadequate **x**
 Technical Area: **Air Quality**
 Project Manager: Jim McKinney

DATA ADEQUACY WORKSHEET

Project: Contra Costa

Docket: 00-AFC-1

Revision No. 1 Date February 14, 2000
 Technical Staff: Guido Franco & Gabriel D. Behymer
 Technical Senior: Keith Golden

SITING REGULATIONS	INFORMATION	AFC PAGE NUMBER AND SECTION NUMBER	ADEQUATE YES OR NO	INFORMATION REQUIRED TO MAKE AFC CONFORM WITH REGULATIONS
Appendix B (g) (8) (G)	The ambient concentrations of all criteria pollutants for the previous three years as measured at the three Air Resources Board certified monitoring stations located closest to the project site, and an analysis of whether this data is representative of conditions at the project site. The applicant may substitute an explanation as to why information from one, two, or all stations is either not available or unnecessary.	8.1.1.2 (pg. 8.1-4) & Tables 8.1-[1-6] (pg. 8.1-[33-35])	Yes	
Appendix B (g) (8) (H)	One year of meteorological data collected from either the Federal Aviation Administration Class 1 station nearest to the project or from the project site, or meteorological data approved by the California Air Resources Board or the local air pollution control district.		No	Please provide the CD-ROM containing the meteorological data and the input and output files from the air dispersion modeling exercise.
Appendix B (g) (8) (H) (i)	If the data is collected from the project site, the applicant shall demonstrate compliance with the requirements of the U.S. Environmental Protection Agency document entitled "On-Site Meteorological Program Guidance for Regulatory Modeling Applications" (EPA - 450/4-87-013 (August 1995), which is incorporated by reference in its entirety.)		No	Please provide a letter from the BAAQMD indicating that the meteorological data is adequate, or documentation demonstrating that the provided data is in compliance with EPA - 450/4-87-013 (August 1995) or its new versions, if applicable.
Appendix B (g) (8) (H) (ii)	The data shall include quarterly wind tables and wind roses, ambient temperatures, relative humidity, stability and mixing heights, upper atmospheric air data, and an analysis of whether this data is representative of conditions at the project site.	Appendix C	No	Please provide the upper atmospheric data as required by this regulation. The data can be downloaded from the EPA' SCRAM website.
Appendix B (g) (8) (I)	An evaluation of the project's direct and cumulative air quality impacts, consisting of the following:			

Adequacy Issue: Adequate _____ Inadequate **x**

Technical Area: **Air Quality**

Project Manager: Jim McKinney

DATA ADEQUACY WORKSHEET

Project: Contra Costa

Docket: 00-AFC-1

Revision No. 1 Date February 14, 2000

Technical Staff: Guido Franco & Gabriel D. Behymer

Technical Senior: Keith Golden

SITING REGULATIONS	INFORMATION	AFC PAGE NUMBER AND SECTION NUMBER	ADEQUATE YES OR NO	INFORMATION REQUIRED TO MAKE AFC CONFORM WITH REGULATIONS
Appendix B (g) (8) (I) (i)	A screening level air quality modeling analysis, or a more detailed modeling analysis if so desired by the applicant, of the direct inert pollutant impacts of project construction activities on ambient air quality conditions, including fugitive dust (PM ₁₀) emissions from grading, excavation and site disturbance, as well as the combustion emissions [nitrogen oxides (NO _x), sulfur dioxide (SO ₂), carbon monoxide (CO), and particulate matter less than 10 microns in diameter (PM ₁₀)] from construction-related equipment;	Table 8.1-15 (pg. 8.1-42)	Yes	
Appendix B (g) (8) (I) (ii)	A screening level air quality modeling analysis, or a more detailed modeling analysis if so desired by the applicant, of the direct inert criteria pollutant (NO _x , SO ₂ , CO and PM ₁₀) impacts on ambient air quality conditions of the project during typical (normal) operation, and during shutdown and startup modes of operation. Identify and include in the modeling of each operating mode the estimated maximum emissions rates and the assumed meteorological conditions; and	Table 8.1-13 (pg. 8.1-41), Tables 8.1-[15-18] (pg. 8.1-[43-46]), & Appendix C	Yes	
Appendix B (g) (8) (I) (iii)	A protocol for a cumulative air quality modeling impacts analysis of the project's typical operating mode in combination with other stationary emissions sources within a six mile radius which have received construction permits but are not yet operational, or are in the permitting process. The cumulative inert pollutant impact analysis should assess whether estimated emissions concentrations will cause or contribute to a violation of any ambient air quality standard.	8.1.3 (pg. 8.1-14)	Yes	
Appendix B (g) (8) (J)	If an emission offset strategy is proposed to mitigate the project's impacts under subsection (g)(1), provide the following information:			
Appendix B (g) (8) (J) (i)	The quantity of offsets needed;	8.1.4 (pg. 8.1-16)	Yes	

Adequacy Issue: Adequate _____ Inadequate **x**

Technical Area: **Air Quality**

Project Manager: Jim McKinney

DATA ADEQUACY WORKSHEET

Project: Contra Costa

Docket: 00-AFC-1

Revision No. 1 Date February 14, 2000

Technical Staff: Guido Franco & Gabriel D. Behymer

Technical Senior: Keith Golden

SITING REGULATIONS	INFORMATION	AFC PAGE NUMBER AND SECTION NUMBER	ADEQUATE YES OR NO	INFORMATION REQUIRED TO MAKE AFC CONFORM WITH REGULATIONS
Appendix B (g) (8) (J) (ii)	Potential offset sources, including location, and quantity of emission reductions; and	8.1.4 (pg. 8.1-16), & Confidential Submittal accepted as confidential on February 10, 2000.	Yes	
Appendix B (g) (8) (J) (iii)	Method of emission reduction.	8.1.4 (pg. 8.1-16), & Confidential Submittal	Yes	
Appendix B (g) (8) (K)	A topographic map containing contour and elevation data, at a scale of 1:24,000, showing the area within 6 miles of the power plant site.	Map 8.1-1	Yes	
Appendix B (h) (1) (A)	Tables which identify laws, regulations, ordinances, standards, adopted local, regional, state, and federal land use plans, and permits applicable to the proposed project, and a discussion of the applicability of each. The table or matrix shall explicitly reference pages in the application wherein conformance, with each law or standard during both construction and operation of the facility is discussed;	8.1.5 (pg. 8.1-17), & Table 8.1-24 (pg. 8.1-50)	Yes	
Appendix B (h) (1) (B)	Tables which identify each agency with jurisdiction to issue applicable permits and approvals or to enforce identified laws, regulations, standards, and adopted local, regional, state and federal land use plans, and agencies which would have permit approval or enforcement authority, but for the exclusive authority of the commission to certify sites and related facilities.	8.1.5 (pg. 8.1-17), & Table 8.1-24 (pg. 8.1-50)	Yes	
Appendix B (h) (2)	A discussion of the conformity of the project with the requirements listed in subsection (h)(1)(A).	8.1.5 (pg. 8.1-17), & Table 8.1-24 (pg. 8.1-50)	Yes	
Appendix B (h) (3)	The name, title, phone number, and address, if known, of an official within each agency who will serve as a contact person for the agency.	8.1.6 (pg. 8.1-30)	Yes	
Appendix B (h) (4)	A schedule indicating when permits outside the authority of the commission will be obtained and the steps the applicant has taken or plans to take to obtain such permits.	8.1.7 (pg. 8.1-30)	Yes	

Adequacy Issue: Adequate _____ Inadequate **x**

DATA ADEQUACY WORKSHEET

Revision No. 1 Date 2/28/00

Technical Area: Alternatives

Project: Contra Costa Unit 8

Technical Staff: J McKinney

Project Manager: Jim McKinney

Docket: 00-AFC-1

Technical Senior: R Johnson

SITING REGULATIONS	INFORMATION	AFC PAGE NUMBER AND SECTION NUMBER	ADEQUATE YES OR NO	INFORMATION REQUIRED TO MAKE AFC CONFORM WITH REGULATIONS
Appendix B (b) (1) (D)	A description of how the site and related facilities were selected and the consideration given to engineering constraints, site geology, environmental impacts, water, waste and fuel constraints, electric transmission constraints, and any other factors considered by the applicant.	Pages 2-1 to 2-68 Section 2 Pages 9-1 to 9-14 Section 9	Yes	
Appendix B (f) (1)	A discussion of the range of reasonable alternatives to the project, or to the location of the project, including the no project alternative, which would feasibly attain most of the basic objectives of the project but would avoid or substantially lessen any of the significant effects of the project, and an evaluation of the comparative merits of the alternatives. In accordance with Public Resources Code section 25540.6(b), a discussion of the applicant's site selection criteria, any alternative sites considered for the project, and the reasons why the applicant chose the proposed site.	Pages 9-1 to 9-14 Section 9	No	Wind technology is referenced only in Table 9-3 on a generic basis. Regionally referenced benefits and drawbacks of wind should be presented.
Appendix B (f) (2)	An evaluation of the comparative engineering, economic, and environmental merits of the alternatives discussed in subsection (f)(1).	Pages 9-1 to 9-14 Section 9	No	Economic assumptions for fossil fuel costs over the project design life are not presented in Table 9-3.

Adequacy Issue: Adequate _____ Inadequate **X**
 Technical Area: **Biological Resources**
 Project Manager: James McKinney

DATA ADEQUACY WORKSHEET

Project: Contra Costa Power Plant
 Docket: 00-AFC-1

Revision No. 2 Date February 25, 2000
 Technical Staff: Dick Anderson
 Technical Senior: Dr. James Brownell

SITING REGULATIONS	INFORMATION	AFC PAGE NUMBER AND SECTION NUMBER	ADEQUATE YES OR NO	INFORMATION REQUIRED TO MAKE AFC CONFORM WITH REGULATIONS
Appendix B (g) (1)	...provide a discussion of the existing site conditions, the expected direct, indirect and cumulative impacts due to the construction, operation and maintenance of the project, the measures proposed to mitigate adverse environmental impacts of the project, the effectiveness of the proposed measures, and any monitoring plans proposed to verify the effectiveness of the mitigation.	Section 8.2.1---8.2.4	No	Provide a discussion of cumulative impacts for biological resources, especially aquatic resources, resulting from CCPP and the other nearby (within 10 miles) power plants using once-through cooling. Provide a copy of the draft HCP and a copy of the MOU with CDFG that addresses thermal, impingement, and entrainment impacts.
Appendix B (g) (13) (A)	A regional overview and discussion of biological resources, with particular attention to sensitive biological resources near the project, and a map at a scale of 1:100,000 (or some other suitable scale) showing their location in relation to the project.	Section 8.2.1.1 Figure 8.2.1	No	Identify the location on the regional overview map (Figure 8.2-1), of the Montezuma habitat enhancement site referenced on page 8.2-12.
Appendix B (g) (13) (B)	A discussion and detailed maps at a scale of 1:6,000, of the biological resources at the site of the proposed project and related facilities, and in areas adjacent to them, out to a mile from the site and 1000 feet from the outer edge of linear facility corridors. Include a list of the species actually observed and those with a potential to occur. The discussion and maps shall address the distribution of community types, denning or nesting sites, population concentrations, migration corridors, breeding habitats, and the presence of sensitive biological resources.	Section 8.2.1.3---8.2.1.6 Map 8.2-1 Tables 8.2-1 and 8.2-2	No	Identify the location of the Sardis Unit of the Antioch Dunes National Wildlife Refuge on the regional overview map and on Figure 8.2-1. Provide a description of the biological resources associated with the Sardis Unit.

Adequacy Issue: Adequate _____ Inadequate **X**
 Technical Area: **Biological Resources**
 Project Manager: James McKinney

DATA ADEQUACY WORKSHEET

Revision No. 2 Date February 25, 2000
 Technical Staff: Dick Anderson
 Technical Senior: Dr. James Brownell

Project: Contra Costa Power Plant
 Docket: 00-AFC-1

SITING REGULATIONS	INFORMATION	AFC PAGE NUMBER AND SECTION NUMBER	ADEQUATE YES OR NO	INFORMATION REQUIRED TO MAKE AFC CONFORM WITH REGULATIONS
Appendix B (g) (13) (C)	A description of all studies and surveys used to provide biological information about the project site, including seasonal surveys and copies of the California Department of Fish and Game's Natural Diversity Data Base Survey Forms, "California Native Species Field Survey Forms", and "California Natural Community Field Survey Forms", completed by the applicant. Include the dates and duration of the studies, methods used to complete the studies, and the names and qualifications of individuals conducting the studies.	Section 8.2.1.2 Appendix D&E	Yes	
Appendix B (g) (13) (D)	A discussion of all permanent and temporary impacts to biological resources from site preparation, construction activities, and plant operation. Discussion of impacts must consider impacts from cooling tower drift, and from the use and discharge of water during construction and operation. For facilities which use once-through cooling or take or discharge water directly from or to natural sources, discuss impacts resulting from entrainment, impingement, thermal discharge, effluent chemicals, type of pump (if applicable), temperature, volume and rate of flow at intake and discharge location, and plume configuration in receiving water.	Section 8.2.2	Yes	
Appendix B (g) (13) (E)	A discussion of the following:	N/A	N/A	
Appendix B (g) (13) (E) (i)	All measures proposed to avoid and/or reduce any adverse impacts;	Section 8.2.2.1---8.2.2.2	Yes	
Appendix B (g) (13) (E) (ii)	All measures proposed to mitigate any adverse impacts, including any proposals for off-site mitigation; and	Section 8.2.4	Yes	

Adequacy Issue: Adequate _____ Inadequate **X**
 Technical Area: **Biological Resources**
 Project Manager: James McKinney

DATA ADEQUACY WORKSHEET

Project: Contra Costa Power Plant
 Docket: 00-AFC-1

Revision No. 2 Date February 25, 2000
 Technical Staff: Dick Anderson
 Technical Senior: Dr. James Brownell

SITING REGULATIONS	INFORMATION	AFC PAGE NUMBER AND SECTION NUMBER	ADEQUATE YES OR NO	INFORMATION REQUIRED TO MAKE AFC CONFORM WITH REGULATIONS
Appendix B (g) (13) (E) (iii)	Any educational programs proposed to enhance employee awareness in order to protect biological resources.	Section 8.2.2.2	No	The AFC references an employee training program in the draft HCP. The information required for this section would be satisfied if the program is contained in the already requested draft HCP. If not, please provide a copy of the training program.
Appendix B (g) (13) (F)	A discussion of compliance and monitoring programs proposed to ensure the effectiveness of mitigation measures incorporated into the project.	Section 8.2.4	Yes	
Appendix B (g) (13) (G)	A discussion of native fish and wildlife species of commercial and/or recreational value that could be impacted by the project.	Section 8.2.1.4 and 8.2.1.5	Yes	
Appendix B (g) (13) (H)	For purposes of this section, sensitive biological resources are one of the following:	N/A	N/A	
Appendix B (g) (13) (H) (i)	Species listed under state or federal Endangered Species Acts;	Appendix E	Yes	
Appendix B (g) (13) (H) (ii)	Resources defined in sections 1702 (q) and (v) of Title 20 of the California Code of Regulations; and	Appendix E	Yes	
Appendix B (g) (13) (H) (iii)	Species or habitats identified by legislative acts as requiring protection.	Appendix E	Yes	
Appendix B (h) (1) (A)	Tables which identify laws, regulations, ordinances, standards, adopted local, regional, state, and federal land use plans, and permits applicable to the proposed project, and a discussion of the applicability of each. The table or matrix shall explicitly reference pages in the application wherein conformance, with each law or standard during both construction and operation of the facility is discussed;	Table 8.2-3	Yes	

Adequacy Issue: Adequate _____ Inadequate **X**
 Technical Area: **Biological Resources**
 Project Manager: James McKinney

DATA ADEQUACY WORKSHEET

Project: Contra Costa Power Plant
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Revision No. 2 Date February 25, 2000
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 Technical Senior: Dr. James Brownell

SITING REGULATIONS	INFORMATION	AFC PAGE NUMBER AND SECTION NUMBER	ADEQUATE YES OR NO	INFORMATION REQUIRED TO MAKE AFC CONFORM WITH REGULATIONS
Appendix B (h) (1) (B)	Tables which identify each agency with jurisdiction to issue applicable permits and approvals or to enforce identified laws, regulations, standards, and adopted local, regional, state and federal land use plans, and agencies which would have permit approval or enforcement authority, but for the exclusive authority of the commission to certify sites and related facilities.	Section 8.2.7	yes	
Appendix B (h) (2)	A discussion of the conformity of the project with the requirements listed in subsection (h)(1)(A).	Table 8.2-3	Yes	
Appendix B (h) (3)	The name, title, phone number, and address, if known, of an official within each agency who will serve as a contact person for the agency.	Section 8.2.6	Yes	
Appendix B (h) (4)	A schedule indicating when permits outside the authority of the commission will be obtained and the steps the applicant has taken or plans to take to obtain such permits.	Section 8.2.7	Yes	

Adequacy Issue: Adequate _____ Inadequate **X**
 Technical Area: **Cultural Resources**
 Project Manager: **Jim McKinney**

DATA ADEQUACY WORKSHEET

Project: **Contra Costa Power Plant, Unit 8**
 Docket: **00-AFC-2**

Revision No. **1** Date **Feb 24, 2000**
 Technical Staff: **Kathryn M. Matthews**
 Technical Senior: **Dale Edwards**

SITING REGULATIONS	INFORMATION	AFC PAGE NUMBER AND SECTION NUMBER	ADEQUATE YES OR NO	INFORMATION REQUIRED TO MAKE AFC CONFORM WITH REGULATIONS
Appendix B (g) (1)	...provide a discussion of the existing site conditions, the expected direct, indirect and cumulative impacts due to the construction, operation and maintenance of the project, the measures proposed to mitigate adverse environmental impacts of the project, the effectiveness of the proposed measures, and any monitoring plans proposed to verify the effectiveness of the mitigation.	Sec 2.1.1, pg 2-1 & 2-2 Sec 8.3-1, pg 8.3-2 Impacts: Sec 8.3.2, pg 8.3-11 Cum Imp: 8.3.3, pg 8.3-11&12 Mitig: Sec 8.3.4, pg 8.3-12 MonPlan: 8.3.4 Effectiv: 8.3.4 Fig 2-1, 2-2 Fig 8.3-1, pg 8.3-19 Appdx B 7, Boring Logs Appdx K, CDM Site Review	Yes	
Appendix B (g) (2) (A)	A brief summary of the ethnology, prehistory, and history of the region in which the project site and related facilities are located and maps at a scale of 1:24,000, indicating areas of ethnographic occupation. The region may vary depending on the extent of the territory occupied or used by prehistoric cultures indigenous to the area in which the project is located.	Ethnol: 8.3.1.3, pg 8.3-4&5 Prehist: 8.3.1.2, pg 8.3-2 &4 Hist: 8.3.1.4, pg 8.3-6 thru 8 Fig 8.3-2	Yes	
Appendix B (g) (2) (B)	A description of all literature searches and field surveys used to provide information about known cultural resources in the project vicinity. If survey records of the area potentially physically affected by the project are not available, and the area has the potential for containing significant cultural resources, the applicant shall submit a new or revised survey for any portion of the area lacking comprehensive survey data. A discussion of the dates of the surveys, methods used in completing the surveys, and the identification and qualification of the individuals conducting the surveys shall be included.	Lit Search: Sec 8.3.1.5.1, pg 8.3-9 Survey: Sec 8.3.1.5.3, pg 8.3-10	Yes	

Adequacy Issue: Adequate _____ Inadequate **X**
 Technical Area: **Cultural Resources**
 Project Manager: **Jim McKinney**

DATA ADEQUACY WORKSHEET

Project: **Contra Costa Power Plant, Unit 8**
 Docket: **00-AFC-2**

Revision No. **1** Date **Feb 24, 2000**
 Technical Staff: **Kathryn M. Matthews**
 Technical Senior: **Dale Edwards**

SITING REGULATIONS	INFORMATION	AFC PAGE NUMBER AND SECTION NUMBER	ADEQUATE YES OR NO	INFORMATION REQUIRED TO MAKE AFC CONFORM WITH REGULATIONS
Appendix B (g) (2) (C)	A discussion of the sensitivity of the project area described in subsection (g)(2)(A) and the presence and significance of any known archeological sites and other cultural resources that may be affected by the project. Information on the specific location of archeological resources shall be included in a separate appendix to the application and submitted to the Commission under a request for confidentiality pursuant to Title 20, California Code of Regulations, § 2501 et seq.	Any Known: 8.3.1.5.1 Sensitiv: 8.3.1.5.1, 8.3.1.5.3	No	To assist in the evaluation of the sensitivity and impact potential, please provide copies of the site records and maps for sites CA-CCo-135, CA-CCo-149, and CA-CCo-441 referred to on page 8.3-9. This information must be submitted under a request for confidentiality.
Appendix B (g) (2) (D)	A summary of contacts and communications with, and responses from, Native American representatives who may have an interest in heritage lands and/or resources potentially affected by the proposed project.	Appdx F	Yes	
Appendix B (g) (2) (E)	In the discussion on mitigation and monitoring prepared pursuant to subsection (g)(1), a discussion of any educational programs proposed to enhance awareness of potential impacts to archeological resources by employees and contractors, measures proposed for mitigation of impacts to known cultural resources, and a set of contingency measures for mitigation of potential impacts to previously unknown cultural resources.	Mitig: 8.3.4, pg 8.3-12 Educ: 8.3.4 Conting: 8.3.4	Yes	
Appendix B (h) (1) (A)	Tables which identify laws, regulations, ordinances, standards, adopted local, regional, state, and federal land use plans, and permits applicable to the proposed project, and a discussion of the applicability of each. The table or matrix shall explicitly reference pages in the application wherein conformance, with each law or standard during both construction and operation of the facility is discussed;	Sec 8.3.1, pg 8.3-1 has list Sec 8.3.6, pg 8.3-14 table Table 8.3-1, pg 8.3-18	No	Please expand the discussion of Contra Costa County General Plan policies, measures and programs to protect important County cultural resources referenced on page 8.3-14. The discussion should be comparable to the level of detail provided in the rest of Section 8.3.5.

Adequacy Issue: Adequate _____ Inadequate **X**
 Technical Area: **Cultural Resources**
 Project Manager: **Jim McKinney**

DATA ADEQUACY WORKSHEET

Project: **Contra Costa Power Plant, Unit 8**
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Revision No. **1** Date **Feb 24, 2000**
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Appendix B (h) (1) (B)	Tables which identify each agency with jurisdiction to issue applicable permits and approvals or to enforce identified laws, regulations, standards, and adopted local, regional, state and federal land use plans, and agencies which would have permit approval or enforcement authority, but for the exclusive authority of the commission to certify sites and related facilities.	Sec 8.3.6, pg 8.3-14	No	Please add the appropriate department of Contra Costa County government responsible for the local programs and policies referenced on page 8.3-14.
Appendix B (h) (2)	A discussion of the conformity of the project with the requirements listed in subsection (h)(1)(A).	Sec 8.3.4	Yes	
Appendix B (h) (3)	The name, title, phone number, and address, if known, of an official within each agency who will serve as a contact person for the agency.	Sec 8.3.6, pg 8.3-14	No	Please add the appropriate contact for Contra Costa County.
Appendix B (h) (4)	A schedule indicating when permits outside the authority of the commission will be obtained and the steps the applicant has taken or plans to take to obtain such permits.	Sec 8.3.7, pg 8.3-14	Yes	

Adequacy Issue: Adequate ☒ Inadequate ☐
 Technical Area: Efficiency
 Project Manager: Jim McKinney

DATA ADEQUACY WORKSHEET

Revision No. 0 Date February 9, 2000
 Technical Staff: Steve Baker
 Technical Senior: Steve Baker

Project: Contra Costa Power Plant Unit 8 Project
 Docket: 00-AFC-1

SITING REGULATIONS	INFORMATION	AFC PAGE NUMBER AND SECTION NUMBER	ADEQUATE YES OR NO	INFORMATION REQUIRED TO MAKE AFC CONFORM WITH REGULATIONS
Appendix B (g) (1)	...provide a discussion of the existing site conditions, the expected direct, indirect and cumulative impacts due to the construction, operation and maintenance of the project, the measures proposed to mitigate adverse environmental impacts of the project, the effectiveness of the proposed measures, and any monitoring plans proposed to verify the effectiveness of the mitigation.	§§ 1.1, 1.2, 1.3, 1.4, 1.7, 2.2.1, 2.2.2; Fig. 2-4; Table 2-1; §§ 2.2.3, 2.2.5; Table 2-3; §§ 2.2.7, 2.2.10.1, 2.4.3, 9.1, 9.4; Table 9-3; §§ 9.5, 9.6, 10.1	Yes	
Appendix B (i) (4) (A)	Heat and mass balance diagrams for design conditions for each mode of operation.	Fig. 2-4; Table 2-1	Yes	
Appendix B (i) (4) (B)	Annual fuel consumption in BTUs for each mode of operation.	§ 2.2.5.2; Table 2-3	Yes	
Appendix B (i) (4) (C)	Annual net electrical energy produced in MWh for each mode of operation.	§ 1.4	Yes	
Appendix B (i) (4) (D)	Number of hours the plant will be operated in each mode of operation in each year.	§§ 1.1, 1.4	Yes	
Appendix B (i) (4) (E)	If the project will be a cogeneration facility, calculations showing compliance with applicable efficiency and operating standards.	N/A	N/A	
Appendix B (i) (4) (F)	A discussion of alternative generating technologies available for the project, including the projected efficiency of each, and an explanation why the chosen equipment was selected over these alternatives.	§§ 1.7, 9.1, 9.4; Table 9-3; §§ 9.5, 9.6	Yes	
Appendix B (h) (1) (A)	Tables which identify laws, regulations, ordinances, standards, adopted local, regional, state, and federal land use plans, and permits applicable to the proposed project, and a discussion of the applicability of each. The table or matrix shall explicitly reference pages in the application wherein conformance, with each law or standard during both construction and operation of the facility is discussed;	N/A	N/A	

Adequacy Issue: Adequate ☒ Inadequate ☐

Technical Area: Efficiency

Project Manager: Jim McKinney

DATA ADEQUACY WORKSHEET

Project: Contra Costa Power Plant Unit 8 Project

Docket: 00-AFC-1

Revision No. 0 Date February 9, 2000

Technical Staff: Steve Baker

Technical Senior: Steve Baker

SITING REGULATIONS	INFORMATION	AFC PAGE NUMBER AND SECTION NUMBER	ADEQUATE YES OR NO	INFORMATION REQUIRED TO MAKE AFC CONFORM WITH REGULATIONS
Appendix B (h) (1) (B)	Tables which identify each agency with jurisdiction to issue applicable permits and approvals or to enforce identified laws, regulations, standards, and adopted local, regional, state and federal land use plans, and agencies which would have permit approval or enforcement authority, but for the exclusive authority of the commission to certify sites and related facilities.	N/A	N/A	
Appendix B (h) (2)	A discussion of the conformity of the project with the requirements listed in subsection (h)(1)(A).	N/A	N/A	
Appendix B (h) (3)	The name, title, phone number, and address, if known, of an official within each agency who will serve as a contact person for the agency.	N/A	N/A	
Appendix B (h) (4)	A schedule indicating when permits outside the authority of the commission will be obtained and the steps the applicant has taken or plans to take to obtain such permits.	N/A	N/A	

Adequacy Issue: Adequate _____ Inadequate **X**
 Technical Area: Facility Design
 Project Manager: James McKinney

DATA ADEQUACY WORKSHEET

Revision No. 1 Date 2/29/00
 Technical Staff: Kisabuli/Robert Anderson
 Technical Senior: Steve Baker

Project: Contra Costa Power Plant Unit no. 8
 Docket: 00-AFC-01

SITING REGULATIONS	INFORMATION	AFC PAGE NUMBER AND SECTION NUMBER	ADEQUATE YES OR NO	INFORMATION REQUIRED TO MAKE AFC CONFORM WITH REGULATIONS
Appendix B (g) (14) (B) (iii)	Water inundation zones, such as the 100-year flood plain and tsunami run-up zones.	Page 8.14-10; Section 8.14.1.3 and Figure 8.14-1	Yes	
Appendix B (g) (14) (D) (i)	Precipitation and storm runoff patterns; and	Page 8.14-6; Section 8.14.1.2.6, Page 8.14-13; Page 8.14.2.3	Yes	
Appendix B (g) (14) (D) (ii)	Drainage facilities and design criteria.	Figure 2.2; Page 8.14-15; Section 8.14.4.3, Appendix B-1, Page B1-12; Section B1.6.1	Yes	
Appendix B (g) (14) (E) (ii)	The effects of construction activities and plant operation on water quality; and	See Joe O'Hagan's group		
Appendix B (g) (14) (iii)	The effects of the project on the 100-year flood plain or other water inundation zones.	Page 8.14-15; Section 8.14.4.3	Yes	
Appendix B (h) (1) (A)	Tables which identify laws, regulations, ordinances, standards, adopted local, regional, state, and federal land use plans, and permits applicable to the proposed project, and a discussion of the applicability of each. The table or matrix shall explicitly reference pages in the application wherein conformance, with each law or standard during both construction and operation of the facility is discussed;	Section 10, Appendix B	No	The laws, ordinances, regulations and standards (LORS) provided in Section 10 do not include page numbers that identify where conformance with each LORS is discussed. Please provide in tabular or matrix format all the laws, ordinances, regulations and standards applicable to facility design and include in the table or matrix the page number and/or subsection in the AFC wherein conformance with each LORS for facility design is discussed.
Appendix B (h) (1) (B)	Tables which identify each agency with jurisdiction to issue applicable permits and approvals or to enforce identified laws, regulations, standards, and adopted local, regional, state and federal land use plans, and agencies which would have permit approval or enforcement authority, but for the exclusive authority of the commission to certify sites and related facilities.	Section 10, Appendix B	No	Appendix B does not identify any specific agencies with jurisdiction to issue permits or approvals or to enforce LORS identified in Section 10. Please provide in tabular or matrix format, all of the agencies with jurisdiction to issue applicable permits and approvals to enforce identified laws, regulations, ordinances, standards and adopted regional, state, local and federal land use plans, and agencies which would have permit approval or enforcement authority, but for the exclusive authority of the commission to certify sites and related facilities.
Appendix B (h) (2)	A discussion of the conformity of the project with the requirements listed in subsection (h)(1)(A).	Appendix B	Yes	
Appendix B (h) (3)	The name, title, telephone number, and address, if known, of an official within each agency who will serve as a contact person for the agency.	Appendix B	No	Please provide a name, title, telephone number, and address, if known, of an official within each agency who will serve as a contact person for the agency.

Adequacy Issue: Adequate _____ Inadequate **X**
 Technical Area: **Facility Design**
 Project Manager: James McKinney

DATA ADEQUACY WORKSHEET

Revision No. 1 Date 2/29/00
 Technical Staff: Kisabuli/Robert Anderson
 Technical Senior: Steve Baker

SITING REGULATIONS	INFORMATION	AFC PAGE NUMBER AND SECTION NUMBER	ADEQUATE YES OR NO	INFORMATION REQUIRED TO MAKE AFC CONFORM WITH REGULATIONS
Appendix B (h) (4)	A schedule indicating when permits outside the authority of the commission will be obtained and the steps the applicant has taken or plans to take to obtain such permits.	N/A	N/A	
Appendix B (i) (1) (A)	A description of the site conditions and investigations or studies conducted to determine the site conditions used as the basis for developing design criteria. The descriptions shall include, but not be limited to, seismic and other geologic hazards, adverse conditions that could affect the project's foundation, adverse meteorological and climatic conditions, and flooding hazards, if applicable.	Section 8.15 and Appendix B1, Appendix J.	Yes	
Appendix B (i) (1) (B)	A discussion of any measures proposed to improve adverse site conditions.	Section 2.2.14.1	Yes	
Appendix B (i) (1) (C)	A description of the proposed foundation types, design criteria (including derivation), analytical techniques, assumptions, loading conditions, and loading combinations to be used in the design of facility structures and major mechanical and electrical equipment.	Appendices B1 and B2	Yes	
Appendix B (i) (1) (D)	For each of the following facilities and/or systems, provide a description including drawings, dimensions, surface-area requirements, typical operating data, and performance and design criteria for protection from impacts due to adverse site conditions:	See below	See below	
Appendix B (i) (1) (D) (i)	The power generation system;	Section 2.2.2 and 2.2.3	Yes	
Appendix B (i) (1) (D) (ii)	The heat dissipation system;	Section 2.2.3 and 2.2.7	Yes	
Appendix B (i) (1) (D) (iii)	The cooling water supply system, and, where applicable, pre-plant treatment procedures;	Section 2.2.6	Yes	
Appendix B (i) (1) (D) (iv)	The atmospheric emission control system;	Section 2.2.10, Appendices C4 and C5	Yes	
Appendix B (i) (1) (D) (v)	The waste disposal system and on-site disposal sites;	Section 2.2.8, 2.2.9, 8.12.1 and 12.8.2	Yes	
Appendix B (i)(1)(D)(vi)	The noise emission abatement system	Section 2.2.1, 8.5.2.1 and Table 8.5-5	Yes	

Adequacy Issue: Adequate _____ Inadequate **X**
 Technical Area: **Facility Design**
 Project Manager: James McKinney

DATA ADEQUACY WORKSHEET

Project: Contra Costa Power Plant Unit no. 8
 Docket: 00-AFC-01

Revision No. 1 Date 2/29/00
 Technical Staff: Kisabuli/Robert Anderson
 Technical Senior: Steve Baker

SITING REGULATIONS	INFORMATION	AFC PAGE NUMBER AND SECTION NUMBER	ADEQUATE YES OR NO	INFORMATION REQUIRED TO MAKE AFC CONFORM WITH REGULATIONS
Appendix B (i) (1) (D) (vii)	The geothermal resource conveyance and re-injection lines (if applicable);	N/A	N/A	
Appendix B (i) (1) (D) (viii)	Switchyards/transformer systems; and	Section 2.2.4	Yes	
Appendix B (i) (1) (D) (ix)	Other significant facilities, structures, or system components proposed by the applicant.	Section 2.2	Yes	

Adequacy Issue: Adequate ☒ Inadequate _____
 Technical Area: Geological Hazards
 Project Manager: James McKinney

DATA ADEQUACY WORKSHEET

Revision No. 0 Date 2/11/00
 Technical Staff: Robert Anderson
 Technical Senior: Steve Baker

Project: Contra Cost Power Project
 Docket: 00-AFC-01

SITING REGULATIONS	INFORMATION	AFC PAGE NUMBER AND SECTION NUMBER	ADEQUATE YES OR NO	INFORMATION REQUIRED TO MAKE AFC CONFORM WITH REGULATIONS
Appendix B (g) (1)	...provide a discussion of the existing site conditions, the expected direct, indirect and cumulative impacts due to the construction, operation and maintenance of the project, the measures proposed to mitigate adverse environmental impacts of the project, the effectiveness of the proposed measures, and any monitoring plans proposed to verify the effectiveness of the mitigation.	Pages 8.15-1 to 8.15-15; Sections 8.15.1 to Section 8.15.3	Yes	
Appendix B (g) (17) (A)	A summary of the geology, seismicity, and geologic resources of the project site and related facilities;	Pages 8.15-1 to 8.15-15; Sections 8.15.1 to 8.15.2.2	Yes	
Appendix B (g) (17) (B)	A map at a scale of 1:24,000 and description of all recognized stratigraphic units, geologic structures, and geomorphic features within 2 miles of the project site. Include an analysis of the likelihood of ground rupture, seismic shaking, mass wasting and slope stability, liquefaction, subsidence, and expansion or collapse of soil structures.	Pages 8.15-1 to 8.15-14; Sections 8.15.1 to 8.15-2.1.2 Map 8.15-1	Yes	
Appendix B (g) (17) (C)	A map and description of geologic resources of recreational, commercial, or scientific value which may be affected by the project. Include a discussion of the techniques used to identify and evaluate these resources.	Pages 8.15-12 to 8.15-15; Sections 8.15.1.5 to 8.15.2.2 Figure 8.15-2	Yes	
Appendix B (h) (1) (A)	Tables which identify laws, regulations, ordinances, standards, adopted local, regional, state, and federal land use plans, and permits applicable to the proposed project, and a discussion of the applicability of each. The table or matrix shall explicitly reference pages in the application wherein conformance, with each law or standard during both construction and operation of the facility is discussed;	Table 8.15-2	Yes	

Adequacy Issue: Adequate ☒ Inadequate ☐
 Technical Area: **Geological Hazards**
 Project Manager: James McKinney

DATA ADEQUACY WORKSHEET

Revision No. 0 Date 2/11/00
 Technical Staff: Robert Anderson
 Technical Senior: Steve Baker

Project: Contra Cost Power Project
 Docket: 00-AFC-01

SITING REGULATIONS	INFORMATION	AFC PAGE NUMBER AND SECTION NUMBER	ADEQUATE YES OR NO	INFORMATION REQUIRED TO MAKE AFC CONFORM WITH REGULATIONS
Appendix B (h) (1) (B)	Tables which identify each agency with jurisdiction to issue applicable permits and approvals or to enforce identified laws, regulations, standards, and adopted local, regional, state and federal land use plans, and agencies which would have permit approval or enforcement authority, but for the exclusive authority of the commission to certify sites and related facilities.	Page 8.15-17; Section 8.15.7 and Table 8.15-2	Yes	
Appendix B (h) (2)	A discussion of the conformity of the project with the requirements listed in subsection (h)(1)(A).	Page 8.15-16; Section 8.15.5 and Table 8.15-2	Yes	
Appendix B (h) (3)	The name, title, phone number, and address, if known, of an official within each agency who will serve as a contact person for the agency.	Page 8.15-17; Section 8.15.6	Yes	

Adequacy Issue: Adequate ☒ Inadequate ☐
 Technical Area: Hazardous Materials Handling
 Project Manager: McKinney/ Pryor

DATA ADEQUACY WORKSHEET

Revision No. 0 Date 2/16/00
 Technical Staff: R. Tyler
 Technical Senior: S. Baker

Project: Contra Costa Power Plant Unit 8 Project
 Docket: 00-AFC-1

SITING REGULATIONS	INFORMATION	AFC PAGE NUMBER AND SECTION NUMBER	ADEQUATE YES OR NO	INFORMATION REQUIRED TO MAKE AFC CONFORM WITH REGULATIONS
Appendix B (g) (1)	...provide a discussion of the existing site conditions, the expected direct, indirect and cumulative impacts due to the construction, operation and maintenance of the project, the measures proposed to mitigate adverse environmental impacts of the project, the effectiveness of the proposed measures, and any monitoring plans proposed to verify the effectiveness of the mitigation.	Section 8.12	Yes	
Appendix B (g) (10) (A)	A list of all materials used or stored on-site which are hazardous or acutely hazardous, as defined in Title 22, California Code of Regulations, § 66261.20 et seq., and a discussion of the toxicity of each material.	Section 8.12 Table 812-4	Yes	
Appendix B (g) (10) (B)	A map at a scale of 1:24,000 depicting the location of schools, hospitals, day-care facilities, emergency response facilities and long-term health care facilities, within the area potentially affected by any release of hazardous materials.	Section 8.6 Map 8.6-1	Yes	
Appendix B (g) (10) (C)	A discussion of the storage and handling system for each hazardous material used or stored at the site.	Section 8.12.2.2.1, Table 8.12-4	Yes	
Appendix B (g) (10) (D)	The protocol that will be used in modeling potential consequences of accidental releases that could result in off site impacts. Identify the model(s) to be used, a description of all input assumptions, including meteorological conditions. The results of the modeling analysis can be submitted after the AFC is complete.	Section 8.12.2.2.2	Yes	
Appendix B (g) (10) (E)	A discussion of whether a risk management plan (Health and Safety Code § 25531 et seq.) will be required, and if so, the requirements that will likely be incorporated into the plan.	Section 8.12.2.2.2	Yes	
Appendix B (g) (10) (F)	A discussion of measures proposed to reduce the risk of any release of hazardous materials.	Section 8.12.2.2.1, Figure 8.12-2	Yes	
Appendix B (g) (10) (G)	A discussion of the fire and explosion risks associated with the project.	Section 8.12.3	Yes	

Adequacy Issue: Adequate ☒ Inadequate ☐
 Technical Area: Hazardous Materials Handling
 Project Manager: McKinney/ Pryor

DATA ADEQUACY WORKSHEET

Revision No. 0 Date 2/16/00
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 Technical Senior: S. Baker

Project: Contra Costa Power Plant Unit 8 Project
 Docket: 00-AFC-1

SITING REGULATIONS	INFORMATION	AFC PAGE NUMBER AND SECTION NUMBER	ADEQUATE YES OR NO	INFORMATION REQUIRED TO MAKE AFC CONFORM WITH REGULATIONS
Appendix B (h) (1) (A)	Tables which identify laws, regulations, ordinances, standards, adopted local, regional, state, and federal land use plans, and permits applicable to the proposed project, and a discussion of the applicability of each. The table or matrix shall explicitly reference pages in the application wherein conformance, with each law or standard during both construction and operation of the facility is discussed;	Table 8.12-6	Yes	
Appendix B (h) (1) (B)	Tables which identify each agency with jurisdiction to issue applicable permits and approvals or to enforce identified laws, regulations, standards, and adopted local, regional, state and federal land use plans, and agencies which would have permit approval or enforcement authority, but for the exclusive authority of the commission to certify sites and related facilities.	Table 8.12-6	Yes	
Appendix B (h) (2)	A discussion of the conformity of the project with the requirements listed in subsection (h)(1)(A).	Section 8.12.6,	Yes	
Appendix B (h) (3)	The name, title, phone number, and address, if known, of an official within each agency who will serve as a contact person for the agency.	Page 8.12-6	Yes	
Appendix B (h) (4)	A schedule indicating when permits outside the authority of the commission will be obtained and the steps the applicant has taken or plans to take to obtain such permits.	NA	NA	No permits are required

Adequacy Issue: Adequate _____ Inadequate **X**
 Technical Area: Land Use
 Project Manager: Jim McKinney

DATA ADEQUACY WORKSHEET

Revision No. 2 Date February 28, 2000
 Technical Staff: Eric Knight
 Technical Senior: Dale Edwards

Project: Contra Costa Power Plant Unit 8 Project
 Docket: 00-AFC-1

SITING REGULATIONS	INFORMATION	AFC PAGE NUMBER AND SECTION NUMBER	ADEQUATE YES OR NO	INFORMATION REQUIRED TO MAKE AFC CONFORM WITH REGULATIONS
Appendix B (g) (1)	...provide a discussion of the existing site conditions, the expected direct, indirect and cumulative impacts due to the construction, operation and maintenance of the project, the measures proposed to mitigate adverse environmental impacts of the project, the effectiveness of the proposed measures, and any monitoring plans proposed to verify the effectiveness of the mitigation.	Page 8.4-3; Section 8.4.1.2 Pages 8.4-7 – 8.4-9; Sections 8.4.2 – 8.4.4	YES	
Appendix B (g) (3) (A)	A discussion of existing land uses and current zoning at the site, land uses and land use patterns within one mile of the proposed site and within one-quarter mile of any project-related linear facilities. Include:	Pages 8.4-3 – 8.4-4; Section 8.4.1.2	NO	The submittal of information identified below for Appendix B (g) (3) (A) (i) would satisfy this section.
Appendix B (g) (3) (A) (i)	An identification of residential, commercial, industrial, recreational, scenic, agricultural, natural resource protection, natural resource extraction, educational, religious, cultural, and historic areas, and any other area of unique land uses;	Pages 8.4-3 – 8.4-4; Section 8.4.1.2	NO	<p>Agricultural activity (grape vineyards) occurs within the Study Area Boundary (within 1 mile of the project site). These grape vineyards lie southwest (east of Viera Avenue), south (across Wilbur Avenue, along both sides of the BN&SF railroad right-of-way), and southeast (east of SR 160) of the project site. Section 8.4.1.2 makes no mention of these grape vineyards. Please revise the text to include all existing agricultural use within the Study Area Boundary.</p> <p>There is a unit of the Antioch Dunes National Wildlife Refuge, called the Sardis Unit, located between the two PG&E transmission lines that cross the river west of the project site (and within the Study area Boundary). The AFC text and maps make no reference to this land use. Please revise Section 8.4.1.2 and Figure 8.4-4.</p> <p>Section 8.4.1.2.3 states that public lands held by the State of California are within 1 mile of the proposed site, and that these are shown on Figure 8.4-1. These lands are not shown on Figure 8.4-1. Please revise the text to explain what these lands are, and clearly depict these on the appropriate map.</p>

Adequacy Issue: Adequate _____ Inadequate **X**

DATA ADEQUACY WORKSHEET

Revision No. 2 Date February 28, 2000

Technical Area: Land Use

Project: Contra Costa Power Plant Unit 8 Project

Technical Staff: Eric Knight

Project Manager: Jim McKinney

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Technical Senior: Dale Edwards

SITING REGULATIONS	INFORMATION	AFC PAGE NUMBER AND SECTION NUMBER	ADEQUATE YES OR NO	INFORMATION REQUIRED TO MAKE AFC CONFORM WITH REGULATIONS
Appendix B (g) (3) (A) (ii)	A discussion of any trends in recent zoning changes and potential future land use development;	Page 8.4-3; Sections 8.4.1.1.2 and 8.4.1.2	NO	Please provide a discussion of any trends in recent zoning changes within the Study Area Boundary. If there are no trends, please provide a statement to that effect.
Appendix B (g) (3) (A) (iii)	Identification of all discretionary reviews by public agencies initiated or completed within 18 months prior to filing the application for those changes or developments identified in subsection (g)(3)(A)(ii); and	Page 8.4-3; Section 8.4.1.1.2 Appendix H; Pages H-1 – H-3	YES	

Adequacy Issue: Adequate _____ Inadequate **X**
 Technical Area: Land Use
 Project Manager: Jim McKinney

DATA ADEQUACY WORKSHEET

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Revision No. 2 Date February 28, 2000

Technical Staff: Eric Knight
 Technical Senior: Dale Edwards

SITING REGULATIONS	INFORMATION	AFC PAGE NUMBER AND SECTION NUMBER	ADEQUATE YES OR NO	INFORMATION REQUIRED TO MAKE AFC CONFORM WITH REGULATIONS
Appendix B (g) (3) (A) (iv)	Legible maps of the areas identified in subsection (g)(3)(A) potentially affected by the project, on which existing land uses, jurisdictional boundaries, general plan designations, specific plan designations, and zoning have been clearly delineated.	Figures 8.4-1 – 8.4-4	NO	<p>The Study Area Boundary includes land in the unincorporated area of Contra Costa County and within the City limits of Antioch. Please revise Figures 8.4-1 and 8.4-2 to include the Antioch City limit boundary.</p> <p>Land in the jurisdiction of Sacramento County is also within the Study Area Boundary. Please revise Figures 8.4-1, 8.4-2, and 8.4-4 to provide existing land uses and land use patterns (i.e., General Plan and Zoning Designations) for that portion of Sacramento County within the Study Area Boundary.</p> <p>Figure 8.4-4 depicts one land use category that includes a broad list of existing uses: Open Space, Agricultural, and Marina. Several areas of grape vineyards exist in the Study Area Boundary. Please revise Figure 8.4-4 by using a separate color to clearly depict agricultural uses.</p> <p>On Figure 8.4-2, the full name descriptions in the legend for some of the General Plan Designations do not match those provided in Table 8.4-3. Specifically, DR should be "Delta Recreation and Resources," PR should be "Parks and Recreation," and PS should be "Public/Semi Public." Please correct the legend. In addition, Antioch General Plan designations (within the City limits) are not accurately depicted. Please correct the figure to accurately depict General Plan designations that are in effect for the appropriate jurisdiction.</p> <p>Table 8.4-5 provides Zoning Districts within the study area. These are not accurately depicted on Figure 8.4-1. Please revise the figure to accurately depict the Zoning Districts that are in effect for the appropriate jurisdiction.</p>

Adequacy Issue: Adequate _____ Inadequate **X**

DATA ADEQUACY WORKSHEET

Revision No. 2 Date February 28, 2000

Technical Area: Land Use

Project: Contra Costa Power Plant Unit 8 Project

Technical Staff: Eric Knight

Project Manager: Jim McKinney

Docket: 00-AFC-1

Technical Senior: Dale Edwards

SITING REGULATIONS	INFORMATION	AFC PAGE NUMBER AND SECTION NUMBER	ADEQUATE YES OR NO	INFORMATION REQUIRED TO MAKE AFC CONFORM WITH REGULATIONS
Appendix B (g) (3) (B)	A discussion of the compatibility of the proposed facilities with present and expected land uses, and conformity with any long-range land use plans adopted by any federal, state, regional, or local planning agency. The discussion shall identify the need, if any, for variances or any measures that would be necessary to make the proposal conform with permitted land uses	Page 8.4-8; Section 8.4.2.3 Page 8.4-5; Section 8.4.1.3.3	NO	Section 8.4.2.3 of the AFC asserts that the proposed project is compatible with existing uses because "the Contra Costa General Plan indicates that power plants are compatible adjacent land uses to other heavy industrial activities." However, Figure 8.4-4 shows a marina and several residences to the east immediately adjacent to the proposed project site. Please revise section 8.4.2.3 to discuss how the proposed power plant will be compatible with these existing uses. Section 8.4.1.3.3 states that the proposed project site is within the City of Antioch's Sphere of Influence, and therefore the Antioch General Plan is applicable to the project. Please revise this section to include the Antioch General Plan designation for the proposed site, as well as a general discussion of the project's conformity with the Antioch General Plan.
Appendix B (g) (15) (B)	A map at a scale of 1:24,000 and written description of agricultural land uses found within all areas affected by the proposed project. The description shall include:	Figure 8.4-4 Page 8.4-3; Section 8.4.1.2	NO	Response to Appendix B (g) (3) (A) (iv) making the requested changes to Figure 8.4-4, and response to Appendix B (g) (3) (A) (i) making the requested revisions to Section 8.4.1.2, will be adequate.
Appendix B (g) (15) (B) (i)	Crop types, irrigation systems, and any special cultivation practices; and		NO	Response to Appendix B (g) (3) (A) (i) providing a description of all existing agricultural use within the Study Area Boundary will be adequate.
Appendix B (g) (15) (B) (ii)	Whether farmland affected by the project is prime, of statewide importance, or unique as defined by the Natural Resource Conservation Service of the California Department of Conservation.	Page 8.9-1; Section 8.9.1	YES	
Appendix B (g) (15) (C)	An assessment of the effects of the proposed project on soil resources and agricultural land uses. This decision shall include:			
Appendix B (g) (15) (C) (ii)	Direct and indirect effects on agricultural land uses; and	Pages 8.9-3 – 8.9-4; Section 8.9.2	YES	

Adequacy Issue: Adequate _____ Inadequate **X**

DATA ADEQUACY WORKSHEET

Revision No. 2 Date February 28, 2000

Technical Area: Land Use

Project: Contra Costa Power Plant Unit 8 Project

Technical Staff: Eric Knight

Project Manager: Jim McKinney

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Technical Senior: Dale Edwards

SITING REGULATIONS	INFORMATION	AFC PAGE NUMBER AND SECTION NUMBER	ADEQUATE YES OR NO	INFORMATION REQUIRED TO MAKE AFC CONFORM WITH REGULATIONS
Appendix B (h) (1) (A)	Tables which identify laws, regulations, ordinances, standards, adopted local, regional, state, and federal land use plans, and permits applicable to the proposed project, and a discussion of the applicability of each. The table or matrix shall explicitly reference pages in the application wherein conformance, with each law or standard during both construction and operation of the facility is discussed;	Page 8.4-21; Table 8.4-6	YES	
Appendix B (h) (1) (B)	Tables which identify each agency with jurisdiction to issue applicable permits and approvals or to enforce identified laws, regulations, standards, and adopted local, regional, state and federal land use plans, and agencies which would have permit approval or enforcement authority, but for the exclusive authority of the commission to certify sites and related facilities.	Page 8.4-10; Tables 8.4.6 and 8.4.7	YES	

Adequacy Issue: Adequate _____ Inadequate **X**

DATA ADEQUACY WORKSHEET

Revision No. 2 Date February 28, 2000

Technical Area: Land Use

Project: Contra Costa Power Plant Unit 8 Project

Technical Staff: Eric Knight

Project Manager: Jim McKinney

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Technical Senior: Dale Edwards

SITING REGULATIONS	INFORMATION	AFC PAGE NUMBER AND SECTION NUMBER	ADEQUATE YES OR NO	INFORMATION REQUIRED TO MAKE AFC CONFORM WITH REGULATIONS
Appendix B (h) (2)	A discussion of the conformity of the project with the requirements listed in subsection (h)(1)(A).	Page 8.4-8; Section 8.4.2.4	NO	<p>The AFC makes the statement that the project is consistent with policies of the Contra Costa County and City of Antioch General Plans. The General Plan policies applicable to the project are listed in Table 8.4-2. However, the AFC does not explicitly discuss the project's conformance with each listed policy. Please provide a discussion of the project's conformity with Contra Costa County and Antioch General Plan policies.</p> <p>The AFC states that a site plan will be submitted to the Energy Commission demonstrating compliance with all applicable provisions of Chapters 82-2, 84-62, and 84-63 of the Contra Costa County Zoning Code. However, these requirements are not listed in the AFC. Please include in the AFC a listing of these Zoning Code requirements and a discussion of the project's conformity with the requirements. Please indicate if any variances (e.g., to exceed a height limit) would be required to bring the project into conformity with the Zoning Code.</p>
Appendix B (h) (3)	The name, title, phone number, and address, if known, of an official within each agency who will serve as a contact person for the agency.	Page 8.4-10; Table 8.4.6	YES	
Appendix B (h) (4)	A schedule indicating when permits outside the authority of the commission will be obtained and the steps the applicant has taken or plans to take to obtain such permits.	Page 8.4-9; Section 8.4.5 Page 8.4-10; Table 8.4.7	NO	The AFC states that Contra Costa County requires a "land use permit" to use or store hazardous materials or waste in the Heavy Industrial Zoning District. The AFC states that the applicant will begin the application process in the first quarter of 2000. Please describe the steps the applicant has taken or plans to take to obtain the permit. Please provide a schedule for the application process.

Adequacy Issue: Adequate _____ Inadequate **X**
 Technical Area: **Noise**
 Project Manager: Jim McKinney

DATA ADEQUACY WORKSHEET

Revision No. 0 Date February 8, 2000

Project: Contra Costa Power Plant Unit 8 Project
 Docket: 00-AFC-1

Technical Staff: Steve Baker
 Technical Senior: Steve Baker

SITING REGULATIONS	INFORMATION	AFC PAGE NUMBER AND SECTION NUMBER	ADEQUATE YES OR NO	INFORMATION REQUIRED TO MAKE AFC CONFORM WITH REGULATIONS
Appendix B (g) (1)	...provide a discussion of the existing site conditions, the expected direct, indirect and cumulative impacts due to the construction, operation and maintenance of the project, the measures proposed to mitigate adverse environmental impacts of the project, the effectiveness of the proposed measures, and any monitoring plans proposed to verify the effectiveness of the mitigation.	§§ 1.1, 1.4, 1.5, 1.8, 2.1, 2.2.1, 2.2.14; Chapter 8.5; Appendix B8	Yes	
Appendix B (g) (4) (A)	A land use map which identifies residences, hospitals, libraries, schools, places of worship, or other facilities where quiet is an important attribute of the environment within the area impacted by the proposed project. The area impacted by the proposed project is that area where there is a potential increase of 5 dB(A) or more, during either construction or operation, over existing background levels.	Fig. 8.5-7; Map 8.6-1; Table 8.12-1	Yes	
Appendix B (g) (4) (B)	A description of the ambient noise levels at those sites identified under subsection (g)(4)(A) which the applicant believes provide a representative characterization of the ambient noise levels in the project vicinity, and a discussion of the general atmospheric conditions, including temperature, humidity, and the presence of wind and rain at the time of the measurements. The existing noise levels shall be determined by taking noise measurements for a minimum of 25 consecutive hours at a minimum of one site. Other sites may be monitored for duration at the applicant's discretion during the same 25-hour period. The results of the noise level measurements shall be reported in L_{eq} (equivalent sound or noise level), L_{dn} (day-night sound or noise level) or CNEL (Community Noise Equivalent Level) in units of dB(A). The L_{10} , L_{50} , and L_{90} values (noise levels exceeded 10 percent, 50 percent, and 90 percent of the time, respectively) shall also be reported.	§ 8.5-1; Tables 8.5-1, 8.5-2, 8.5-3; Fig. 8.5-1	No	Provide discussion of general atmospheric conditions, including temperature, humidity, wind and rain, during ambient noise surveys.
Appendix B (g) (4) (C)	A description of the major noise sources of the project, including the range of noise levels and the tonal and frequency characteristics of the noise emitted.	§§ 8.5.2.1, 8.5.2.2; Table 8.5-5	Yes	

Adequacy Issue: Adequate _____ Inadequate **X**

Technical Area: **Noise**

Project Manager: **Jim McKinney**

DATA ADEQUACY WORKSHEET

Project: **Contra Costa Power Plant Unit 8 Project**

Docket: **00-AFC-1**

Revision No. **0** Date **February 8, 2000**

Technical Staff: **Steve Baker**

Technical Senior: **Steve Baker**

SITING REGULATIONS	INFORMATION	AFC PAGE NUMBER AND SECTION NUMBER	ADEQUATE YES OR NO	INFORMATION REQUIRED TO MAKE AFC CONFORM WITH REGULATIONS
Appendix B (g) (4) (D)	An estimate of the project noise levels, during both construction and operation, at residences, hospitals, libraries, schools, places of worship or other facilities where quiet is an important attribute of the environment, within the area impacted by the proposed project.	§§ 8.5.2.1, 8.5.2.2; Tables 8.5-5, 8.5-6	Yes	
Appendix B (g) (4) (E)	An estimate of the project noise levels within the project site boundary during both construction and operation and the impact to the workers at the site due to the estimated noise levels.	§§ 8.5.1, 8.5.2.1, 8.5.5; Fig. 8.5-2; Table 8.5-3	Yes	
Appendix B (g) (4) (F)	The audible noise from existing switchyards and overhead transmission lines that would be affected by the project and estimates of the future audible noise levels that would result from existing and proposed switchyards and transmission lines. Noise levels shall be calculated at the property boundary for switchyards and at the edge of the rights-of-way for transmission lines.	§§ 1.7, 2.1, 8.5.2.2	Yes	
Appendix B (h) (1) (A)	Tables which identify laws, regulations, ordinances, standards, adopted local, regional, state, and federal land use plans, and permits applicable to the proposed project, and a discussion of the applicability of each. The table or matrix shall explicitly reference pages in the application wherein conformance, with each law or standard during both construction and operation of the facility is discussed;	§ 8.5.5; Table 8.5-7	Yes	
Appendix B (h) (1) (B)	Tables which identify each agency with jurisdiction to issue applicable permits and approvals or to enforce identified laws, regulations, standards, and adopted local, regional, state and federal land use plans, and agencies which would have permit approval or enforcement authority, but for the exclusive authority of the commission to certify sites and related facilities.	§ 8.5.6	No	Provide table listing applicable County agency(ies)
Appendix B (h) (2)	A discussion of the conformity of the project with the requirements listed in subsection (h)(1)(A).	§§ 8.5.2.1, 8.5.2.2; Table 8.5-7	Yes	

Adequacy Issue: Adequate _____ Inadequate **X**

DATA ADEQUACY WORKSHEET

Revision No. 0 Date February 8, 2000

Technical Area: **Noise**

Project: Contra Costa Power Plant Unit 8 Project

Technical Staff: Steve Baker

Project Manager: Jim McKinney

Docket: 00-AFC-1

Technical Senior: Steve Baker

SITING REGULATIONS	INFORMATION	AFC PAGE NUMBER AND SECTION NUMBER	ADEQUATE YES OR NO	INFORMATION REQUIRED TO MAKE AFC CONFORM WITH REGULATIONS
Appendix B (h) (3)	The name, title, phone number, and address, if known, of an official within each agency who will serve as a contact person for the agency.	§ 8.5.6	No	Provide requested information
Appendix B (h) (4)	A schedule indicating when permits outside the authority of the commission will be obtained and the steps the applicant has taken or plans to take to obtain such permits.	N/A	N/A	

Adequacy Issue: Adequate ☒ Inadequate ☐
 Technical Area: Paleontological Resources
 Project Manager: James McKinney

DATA ADEQUACY WORKSHEET

Revision No. 0 Date 2/11/00
 Technical Staff: Robert Anderson
 Technical Senior: Steve Baker

Project: Contra Costa Power Plant Unit no. 8
 Docket: 00-AFC-01

SITING REGULATIONS	INFORMATION	AFC PAGE NUMBER AND SECTION NUMBER	ADEQUATE YES OR NO	INFORMATION REQUIRED TO MAKE AFC CONFORM WITH REGULATIONS
Appendix B (g) (1)	...provide a discussion of the existing site conditions, the expected direct, indirect and cumulative impacts due to the construction, operation and maintenance of the project, the measures proposed to mitigate adverse environmental impacts of the project, the effectiveness of the proposed measures, and any monitoring plans proposed to verify the effectiveness of the mitigation.	Page 8.16-1, Section 8.16.1 Page 3 Paleontological Resources Assessment Contra Costa Power Plant Unit No. 8, dated Jan. 2000 (confidential); Pages 8.16-4 and 5 Sections 8.16.2 to 8.16.4	Yes	
Appendix B (g) (16) (A)	Identification of the physiographic province and a brief summary of the geologic setting, formations, and stratigraphy of the project area. The area may vary depending on the depositional history of the area.	Pages 8.16-1 and 2: Section 8.16.1 to 8.16.2	Yes	
Appendix B (g) (16) (B)	A discussion of the sensitivity of the project area described in subsection (g)(16)(A) and the presence and significance of any known paleontologic localities or other paleontologic resources within or adjacent to the project.	Pages 8.16-2 to 4; Section 8.16.1.2	Yes	
Appendix B (g) (16) (C)	A summary of all literature searches and field surveys used to provide information about paleontologic resources in the project area described in subsection (g)(16)(A). Identify the dates of the surveys, methods used in completing the surveys, and the names and qualifications of the individuals conducting the surveys.	Pages 3 and 4, Paleontological Resources Assessment Contra Costa Power Plant Unit no. 8, dated Jan. 2000 (confidential)	Yes	
Appendix B (g) (16) (D)	Information on the specific location of known paleontologic resources, survey reports, locality records, and maps at a scale of 1:24,000, shall be included in a separate appendix to the Application and submitted to the Commission under a request for confidentiality, pursuant to Title 20, California Code of Regulations, § 2501 et seq.	Page 5, Table 1 and Figure 1 Paleontological Resources Assessment Contra Costa Power Plant Unit no. 8, dated Jan. 2000 (confidential)	Yes	

Adequacy Issue: Adequate ☒ Inadequate ☐
 Technical Area: Paleontological Resources
 Project Manager: James McKinney

DATA ADEQUACY WORKSHEET

Revision No. 0 Date 2/11/00
 Technical Staff: Robert Anderson
 Technical Senior: Steve Baker

Project: Contra Costa Power Plant Unit no. 8
 Docket: 00-AFC-01

SITING REGULATIONS	INFORMATION	AFC PAGE NUMBER AND SECTION NUMBER	ADEQUATE YES OR NO	INFORMATION REQUIRED TO MAKE AFC CONFORM WITH REGULATIONS
Appendix B (g) (16) (E)	A discussion of any educational programs proposed to enhance awareness of potential impacts to paleontological resources by employees, measures proposed for mitigation of impacts to known paleontologic resources, and a set of contingency measures for mitigation of potential impacts to currently unknown paleontologic resources.	Page 8.16-5; Section 8.16.4	Yes	
Appendix B (h) (1) (A)	Tables which identify laws, regulations, ordinances, standards, adopted local, regional, state, and federal land use plans, and permits applicable to the proposed project, and a discussion of the applicability of each. The table or matrix shall explicitly reference pages in the application wherein conformance, with each law or standard during both construction and operation of the facility is discussed;	Table 8.16-1	Yes	
Appendix B (h) (1) (B)	Tables which identify each agency with jurisdiction to issue applicable permits and approvals or to enforce identified laws, regulations, standards, and adopted local, regional, state and federal land use plans, and agencies which would have permit approval or enforcement authority, but for the exclusive authority of the commission to certify sites and related facilities.	Table 8.16-1	Yes	
Appendix B (h) (2)	A discussion of the conformity of the project with the requirements listed in subsection (h)(1)(A).	Pages 8.16-5 and 6; Section 8.16.6	Yes	
Appendix B (h) (3)	The name, title, phone number, and address, if known, of an official within each agency who will serve as a contact person for the agency.	Page 8.16-6; Section 8.16.6	Yes	
Appendix B (h) (4)	A schedule indicating when permits outside the authority of the commission will be obtained and the steps the applicant has taken or plans to take to obtain such permits.		Not Applicable	

Adequacy Issue: Adequate _____ Inadequate **x**

DATA ADEQUACY WORKSHEET

Revision No. 1 Date 2/28/00

Technical Area: **Project Overview**

Project: Contra Costa Unit 8

Technical Staff: J McKinney

Project Manager: Jim McKinney

Docket: 00-AFC-1

Technical Senior: R Johnson

SITING REGULATIONS	INFORMATION	AFC PAGE NUMBER AND SECTION NUMBER	ADEQUATE YES OR NO	INFORMATION REQUIRED TO MAKE AFC CONFORM WITH REGULATIONS
Cal. Code Regs., tit. 20, § 1704, (a) (3) (A)	Descriptions of all significant assumptions, methodologies, and computational methods used in arriving at conclusions in the document.	Throughout document	Yes	
Cal. Code Regs., tit. 20, § 1704, (a) (3) (B)	Descriptions, including methodologies and findings, of all major studies or research efforts undertaken and relied upon to provide information for the document; and a description of ongoing research of significance to the project (including expected completion dates; and	Throughout document	Yes	
Cal. Code Regs., tit. 20, § 1704, (a) (3) (C)	A list of all literature relied upon or referenced in the documents, along with brief discussions of the relevance of each such reference	Throughout document	Yes	
Cal. Code Regs., tit. 20, § 1704, (a) (4)	Each principal subject area covered in a notice or application shall be set forth in a separate chapter or section, each of which shall identify the person or persons responsible for its preparation.	Throughout document	Yes	
Appendix B (a) (1) (A)	A general description of the proposed site and related facilities, including the location of the site or transmission routes, the type, size and capacity of the generating or transmission facilities, fuel characteristics, fuel supply, water supply, pollution control systems, and other general characteristics.	Pages 2-1 to 2-68 Figures 2-1 to 2-4 Section 2	No	The proposed project is described as maximizing the use of existing plant infrastructure, but the age and fate of existing facilities are not presented. Please describe the long-term operational relationship between existing Units 1 through 7 ("related facilities") and the proposed Unit 8. Additionally, please describe any reasonably foreseeable plans to develop additional energy generation capacity at the site.
Appendix B (a) (1) (B)	Identification of the location of the proposed site and related facilities by section, township, range, county and assessors parcel numbers.	Figure 2-1 Section 2	Yes	
Appendix B (a) (1) (C)	A description of and maps depicting the region, the vicinity, and the site and its immediate surroundings.	Figure 1-1 Section 1	No	Please provide a regional description and map that include the City of Pittsburg and its existing and recently certified power projects.
Appendix B (a) (1) (D)	A full-page color photographic reproduction depicting the visual appearance of the site prior to construction, and a full-page color simulation or artist's rendering of the site and all project components at the site, after construction.	Figures 1-2 and 1-3	Yes	

Adequacy Issue: Adequate _____ Inadequate **x**

DATA ADEQUACY WORKSHEET

Revision No. 1 Date 2/28/00

Technical Area: **Project Overview**

Project: Contra Costa Unit 8

Technical Staff: J McKinney

Project Manager: Jim McKinney

Docket: 00-AFC-1

Technical Senior: R Johnson

SITING REGULATIONS	INFORMATION	AFC PAGE NUMBER AND SECTION NUMBER	ADEQUATE YES OR NO	INFORMATION REQUIRED TO MAKE AFC CONFORM WITH REGULATIONS
Appendix B (a) (1) (E)	In an appendix to the application, a list of current assessor's parcel numbers and owners' names and addresses for all parcels within 500 feet of the proposed transmission line and other linear facilities, and within 1000 feet of the proposed powerplant and related facilities.	Appendix G Pages G-1 to G-3	Yes	
Appendix B (a) (2)	Project Schedule: Proposed dates of initiation and completion of construction, initial start-up, and full-scale operation of the proposed facilities.	Figure 1-4 Section 1	Yes	
Appendix B (a) (3) (A)	A list of all owners and operators of the site(s), the power plant facilities, and, if applicable, thermal host, the geothermal leasehold, the geothermal resource conveyance lines, and the geothermal re-injection system, and a description of their legal interest in these facilities.	Page 1-3 Section 1.6	Yes	
Appendix B (a) (3) (B)	A list of all owners and operators of the proposed electric transmission facilities.	Page 2-48 Section 2.2.13	Yes	
Appendix B (a) (3) (C)	A description of the legal relationship between the applicant and each of the persons or entities specified in subsections (a)(3)(A) and (B).	Page 1-3 Section 1.6	Yes	
Appendix B (b) (1) (A)	Maps at a scale of 1:24,000 (1" = 2000'), along with an identification of the dedicated leaseholds by section, township, range, county, and county assessor's parcel number, showing the proposed final locations and layout of the power plant and all related facilities;	Figure 2-1	Yes	
Appendix B (b) (1) (B)	Scale plan and elevation drawings depicting the relative size and location of the power plant and all related facilities;	Figures 2-2 and 2-3 Section 2	Yes	

Adequacy Issue: Adequate _____ Inadequate **x**

DATA ADEQUACY WORKSHEET

Revision No. 1 Date 2/28/00

Technical Area: **Project Overview**

Project: Contra Costa Unit 8

Technical Staff: J McKinney

Project Manager: Jim McKinney

Docket: 00-AFC-1

Technical Senior: R Johnson

SITING REGULATIONS	INFORMATION	AFC PAGE NUMBER AND SECTION NUMBER	ADEQUATE YES OR NO	INFORMATION REQUIRED TO MAKE AFC CONFORM WITH REGULATIONS
Appendix B (b) (1) (C)	A detailed description of the design, construction and operation of the facilities, specifically including the power generation, cooling, water supply and treatment, waste handling and control, pollution control, fuel handling, and safety, emergency and auxiliary systems, and fuel types and fuel use scenarios; and	Pages 2-1 to 2-68 Section 2	Yes	
Appendix B (b) (2) (A)	Maps at a scale of 1:24,000 of each proposed transmission line route, showing the settled areas, parks, recreational areas, scenic areas, and existing transmission lines within one mile of the proposed route(s).	NA		
Appendix B (b) (2) (B)	A full-page color photographic reproduction depicting a representative above ground section of the transmission line route prior to construction and a full-page color photographic simulation of that section of the transmission line route after construction.	NA		
Appendix B (c)	In a section entitled, "Demand Conformance" provide a discussion explaining how the proposed project conforms with the requirements of Public Resources Code § 25524 or Public Resources Code § 25540.6(a)(5). If the provisions of Public Resources Code § 25523.5 are applicable, explain how the project conforms with the requirements of this section. Additional data adequacy requirements may be contained in the Electricity Report applicable pursuant to Title 20, California Code of Regulations, § 1720.5.	No longer applicable		
Appendix B (d) (1)	A copy of any study or analysis required by the terms of the Commission's Final Decision on the NOI, and a brief summary of the results of the study or analysis.	NA		
Appendix B (d) (2)	Updates of any significant information which has changed since the Commission's Final Decision on the NOI.	NA		

Adequacy Issue: Adequate _____ Inadequate **x**

Technical Area: **Project Overview**

Project Manager: Jim McKinney

DATA ADEQUACY WORKSHEET

Revision No. 1 Date 2/28/00

Technical Staff: J McKinney

Technical Senior: R Johnson

Project: Contra Costa Unit 8

Docket: 00-AFC-1

SITING REGULATIONS	INFORMATION	AFC PAGE NUMBER AND SECTION NUMBER	ADEQUATE YES OR NO	INFORMATION REQUIRED TO MAKE AFC CONFORM WITH REGULATIONS
Appendix B (e) (1)	A discussion of how facility closure will be accomplished in the event of premature or unexpected cessation of operations.	Page 4-1 to 4-1 Section 4	Yes	

Adequacy Issue: Adequate ☒ Inadequate

DATA ADEQUACY WORKSHEET

Revision No. 0 Date February 10, 2000

Technical Area: Public Health
Project Manager: James McKinney

Project: Contra Costa Power Plant Unit 8 Project
Docket: 00-AFC-1

Technical Staff: Mike Ringer
Technical Senior: Greg Newhouse

SITING REGULATIONS	INFORMATION	AFC PAGE NUMBER AND SECTION NUMBER	ADEQUATE YES OR NO	INFORMATION REQUIRED TO MAKE AFC CONFORM WITH REGULATIONS
Appendix B (g) (1)	...provide a discussion of the existing site conditions, the expected direct, indirect and cumulative impacts due to the construction, operation and maintenance of the project, the measures proposed to mitigate adverse environmental impacts of the project, the effectiveness of the proposed measures, and any monitoring plans proposed to verify the effectiveness of the mitigation.	sec. 8.1.1 sec. 8.4.1.2 sec. 8.5.1 sec. 8.6.1 sec. 8.6.2.2 sec. 8.6.2.7 sec. 8.6.2.8 Fig. 8.4-1 Fig. 8.4-4 Table 8.12-1	YES	
Appendix B (g) (9) (A)	A list of all toxic substances emitted by the project under normal operating conditions, which may cause an adverse public health impact as a result of acute, chronic, or sub-chronic exposure and to which members of the public may be exposed. This list should include, at a minimum, any pollutants emitted by the project that are listed pursuant to Health and Safety Code § 25249.8.	Table 8.6-1 Table 8.6-4	YES	
Appendix B (g) (9) (B)	A protocol describing the analysis which the applicant will conduct to determine the extent of potential public exposure to substances identified in subsection (g)(9)(A) resulting from normal facility operation. The analysis itself can be submitted after the AFC is complete.	sec. 8.6.2	YES	
Appendix B (g) (9) (C)	A map at a scale of 1:24,000, showing all terrain areas exceeding the elevation of the stack within a 10 mile radius of the facility.	Map 8.6-1	YES	
Appendix B (g) (9) (D)	A map at a scale of 1:24,000, showing the distribution of population and sensitive receptors within the area exposed to the substances identified in subsection (g)(9)(A).	Map 8.6-1	YES	

Adequacy Issue: Adequate ☒ Inadequate

DATA ADEQUACY WORKSHEET

Revision No. 0 Date February 10, 2000

Technical Area: Public Health
Project Manager: James McKinney

Project: Contra Costa Power Plant Unit 8 Project
Docket: 00-AFC-1

Technical Staff: Mike Ringer
Technical Senior: Greg Newhouse

SITING REGULATIONS	INFORMATION	AFC PAGE NUMBER AND SECTION NUMBER	ADEQUATE YES OR NO	INFORMATION REQUIRED TO MAKE AFC CONFORM WITH REGULATIONS
Appendix B (h) (1) (A)	Tables which identify laws, regulations, ordinances, standards, adopted local, regional, state, and federal land use plans, and permits applicable to the proposed project, and a discussion of the applicability of each. The table or matrix shall explicitly reference pages in the application wherein conformance, with each law or standard during both construction and operation of the facility is discussed;	Table 8.1-24 Table 8.6-6	YES	
Appendix B (h) (1) (B)	Tables which identify each agency with jurisdiction to issue applicable permits and approvals or to enforce identified laws, regulations, standards, and adopted local, regional, state and federal land use plans, and agencies which would have permit approval or enforcement authority, but for the exclusive authority of the commission to certify sites and related facilities.	Table 8.6-6	YES	
Appendix B (h) (2)	A discussion of the conformity of the project with the requirements listed in subsection (h)(1)(A).	sec. 8.6.2.7 sec. 8.6.2.8	YES	
Appendix B (h) (3)	The name, title, phone number, and address, if known, of an official within each agency who will serve as a contact person for the agency.	sec. 8.6.6	YES	
Appendix B (h) (4)	A schedule indicating when permits outside the authority of the commission will be obtained and the steps the applicant has taken or plans to take to obtain such permits.	sec. 8.6.7	YES	

Adequacy Issue: Adequate _____ Inadequate **X**
 Technical Area: Reliability
 Project Manager: Jim McKinney

DATA ADEQUACY WORKSHEET

Revision No. 1 Date February 25, 2000
 Technical Staff: Steve Baker
 Technical Senior: Steve Baker

Project: Contra Costa Power Plant Unit 8 Project
 Docket: 00-AFC-1

SITING REGULATIONS	INFORMATION	AFC PAGE NUMBER AND SECTION NUMBER	ADEQUATE YES OR NO	INFORMATION REQUIRED TO MAKE AFC CONFORM WITH REGULATIONS
Appendix B (g) (1)	...provide a discussion of the existing site conditions, the expected direct, indirect and cumulative impacts due to the construction, operation and maintenance of the project, the measures proposed to mitigate adverse environmental impacts of the project, the effectiveness of the proposed measures, and any monitoring plans proposed to verify the effectiveness of the mitigation.	§§ 1.1, 1.2, 1.3, 1.4, 1.6, 1.7, 1.9, 2.1, 2.2.1, 2.2.2, 2.2.3.1, 2.2.3.2, 2.2.3.3, 2.2.3.4, 2.2.4.3, 2.2.5, 2.2.5.1, 2.2.5.2; Table 2-3; §§ 2.2.6, 2.2.6.1, 2.2.6.2, 2.2.6.4, 2.2.7, 2.2.7.1, 2.2.7.2, 2.2.10.1, 2.2.12.1, 2.3.1, 2.3.1.1, 2.3.1.2, 2.4.1; Table 2-17; §§ 2.4.3, 2.4.4, 2.4.5, 2.4.6, 2.4.6.2, 6.0, 7.0, 9.6.10.1	Yes	
Appendix B (i) (3) (A)	A discussion of the sources and availability of the fuel or fuels to be used over the estimated service life of the facilities.	§§ 1.2, 1.7, 2.2.5, 2.2.5.1, 2.4.4, 6.0	Yes	
Appendix B (i) (3) (B)	A discussion of the anticipated service life and degree of reliability expected to be achieved by the proposed facilities based on a consideration of:	§ 2.4.1	—	
Appendix B (i) (3) (B) (i)	Expected annual and lifetime capacity factors;	§§ 1.1, 1.4, 1.9; Table 2-3; § 2.4.1	Yes	
Appendix B (i) (3) (B) (ii)	The demonstrated or anticipated feasibility of the technologies, systems, components, and measures proposed to be employed in the facilities, including the power generation system, the heat dissipation system, the water supply system, the reinjection system, the atmospheric emission control system, resource conveyance lines, and the waste disposal system;	§§ 1.1, 1.2, 1.3, 1.4, 1.6, 2.2.2, 2.2.3.1, 2.2.5.1, 2.2.6, 2.4.4, 2.4.5, 6.0, 7.0	Yes	
Appendix B (i) (3) (B) (iii)	Geologic and flood hazards, meteorologic conditions and climatic extremes, and cooling water availability;	§§ 1.3, 1.7, 2.1, 2.2.6.2, 2.3.1, 2.3.1.1, 2.3.1.2	Yes	
Appendix B (i) (3) (B) (iv)	Special design features adopted by the applicant or resource supplier to ensure power plant reliability; and	§§ 2.2.4.3, 2.2.7.1, 2.2.12.1, 2.3.1.1, 2.3.1.2, 2.4.1; Table 2-17; §§ 2.4.3, 2.4.6, 2.4.6.2	Yes	

Adequacy Issue: Adequate _____ Inadequate **X**
 Technical Area: Reliability
 Project Manager: Jim McKinney

DATA ADEQUACY WORKSHEET

Revision No. 1 Date February 25, 2000
 Technical Staff: Steve Baker
 Technical Senior: Steve Baker

Project: Contra Costa Power Plant Unit 8 Project
 Docket: 00-AFC-1

SITING REGULATIONS	INFORMATION	AFC PAGE NUMBER AND SECTION NUMBER	ADEQUATE YES OR NO	INFORMATION REQUIRED TO MAKE AFC CONFORM WITH REGULATIONS
Appendix B (i) (3) (B) (v)	The expected power plant maturation period.	Not Found	No	Describe the expected maturation period of technologies employed in the project. (If no unproven technologies will be employed, maturation may be complete by the end of the startup period.)
Appendix B (h) (1) (A)	Tables which identify laws, regulations, ordinances, standards, adopted local, regional, state, and federal land use plans, and permits applicable to the proposed project, and a discussion of the applicability of each. The table or matrix shall explicitly reference pages in the application wherein conformance, with each law or standard during both construction and operation of the facility is discussed;	N/A	N/A	
Appendix B (h) (1) (B)	Tables which identify each agency with jurisdiction to issue applicable permits and approvals or to enforce identified laws, regulations, standards, and adopted local, regional, state and federal land use plans, and agencies which would have permit approval or enforcement authority, but for the exclusive authority of the commission to certify sites and related facilities.	N/A	N/A	
Appendix B (h) (2)	A discussion of the conformity of the project with the requirements listed in subsection (h)(1)(A).	N/A	N/A	
Appendix B (h) (3)	The name, title, phone number, and address, if known, of an official within each agency who will serve as a contact person for the agency.	N/A	N/A	
Appendix B (h) (4)	A schedule indicating when permits outside the authority of the commission will be obtained and the steps the applicant has taken or plans to take to obtain such permits.	N/A	N/A	

Adequacy Issue: Adequate _____ Inadequate **X**
 Technical Area: **Socioeconomics**
 Project Manager: **Jim McKinney**

DATA ADEQUACY WORKSHEET

Revision No. 0 Date February 11, 2000
 Technical Staff: Amanda Stennick
 Technical Senior: Dale Edwards

Project: Contra Costa Power Plant Unit 8 Project
 Docket: 00-AFC-1

SITING REGULATIONS	INFORMATION	AFC PAGE NUMBER AND SECTION NUMBER	ADEQUATE YES OR NO	INFORMATION REQUIRED TO MAKE AFC CONFORM WITH REGULATIONS
Appendix B (g) (1)	...provide a discussion of the existing site conditions, the expected direct, indirect and cumulative impacts due to the construction, operation and maintenance of the project, the measures proposed to mitigate adverse environmental impacts of the project, the effectiveness of the proposed measures, and any monitoring plans proposed to verify the effectiveness of the mitigation.	Section 8.8	Yes	
Appendix B (g) (7) (A)	A description of the socioeconomic circumstances of the vicinity and region affected by construction and operation of the project. Include:	See below	Yes	
Appendix B (g) (7) (A) (i)	The economic characteristics, including the economic base, fiscal resources, and a list of the applicable local agencies with taxing powers and their most recent and projected revenues;	Section 8.8.2.3	No	Please provide tables indicating how revenues from property tax and sales tax in Contra Costa County are disbursed. Show each receiving agency or entity and the estimated percentage of revenues received from sales and property tax.
Appendix B (g) (7) (A) (ii)	The social characteristics, including population and demographic and community trends;	Section 8.8.1.1 Tables 8.8-1; 8.8-12 Figure 8.8-1, -2	Yes	
Appendix B (g) (7) (A) (iii)	Existing and projected unemployment rates;	Section 8.8.1.2 Table 8.8-5	Yes	
Appendix B (g) (7) (A) (iv)	Availability of skilled workers by craft required for construction and operation of the project;	Tables 8.8-7, -8	Yes	
Appendix B (g) (7) (A) (v)	Availability of temporary and permanent housing; and	Section 8.8.1.1 Table 8.8-3	Yes	
Appendix B (g) (7) (A) (vi)	Capacities, existing and expected use levels, and planned expansion of utilities (gas, water and waste) and public services, including fire protection, law enforcement, emergency response, medical facilities, other assessment districts, and school districts. For projects outside metropolitan areas with a population of 500,000 or more, information for each school district shall include current enrollment and yearly expected enrollment by grade level groupings, excluding project-related changes, for the duration of the project construction schedule.	Section 8.8.1.3	Yes	

Adequacy Issue: Adequate _____ Inadequate **X**
 Technical Area: **Socioeconomics**
 Project Manager: **Jim McKinney**

DATA ADEQUACY WORKSHEET

Revision No. 0 Date February 11, 2000
 Technical Staff: Amanda Stennick
 Technical Senior: Dale Edwards

Project: Contra Costa Power Plant Unit 8 Project
 Docket: 00-AFC-1

SITING REGULATIONS	INFORMATION	AFC PAGE NUMBER AND SECTION NUMBER	ADEQUATE YES OR NO	INFORMATION REQUIRED TO MAKE AFC CONFORM WITH REGULATIONS
Appendix B (g) (7) (B)	A discussion of the socioeconomic impacts caused by the construction and operation of the project, including:	See below	Yes	
Appendix B (g) (7) (B) (i)	The number of workers to be employed each month by craft during construction and operation;	Section 8.8.2.2 Table 8.8-8, -9	Yes	
Appendix B (g) (7) (B) (ii)	An estimate of the number and percentage of workers who will commute daily, commute weekly, or relocate in order to work on the project;	Section 8.8.2.2	Yes	
Appendix B (g) (7) (B) (iii)	An estimate of the potential population increase caused directly and indirectly by the project;	Section 8.8.2.3	Yes	
Appendix B (g) (7) (B) (iv)	The potential impact of population increase on housing during the construction and operations phases;	Section 8.8.2.3	Yes	
Appendix B (g) (7) (B) (v)	The potential impacts, including additional costs, on utilities (gas, water and waste) and public services, including fire, law enforcement, emergency response, medical facilities, other assessment districts, and school districts. For projects outside metropolitan areas with a population of 500,000 or more, information on schools shall include project-related enrollment changes by grade level groupings and associated facility and staffing impacts by school district during the construction and operation phases;	Sections 8.8.1.3; 8.8.2.3	Yes	
Appendix B (g) (7) (B) (vi)	An estimate of applicable school impact fees;	Section 8.8.1.3	Yes	
Appendix B (g) (7) (B) (vii)	An estimate of the total construction payroll and an estimate of the total operation payroll;	Tables 8.8-10, -11	Yes	
Appendix B (g) (7) (B) (viii)	An estimate of the expenditures for locally purchased materials for the construction and operation phases of the project; and	Tables 8.8-10, -11	Yes	
Appendix B (g) (7) (B) (ix)	An estimate of the capital cost of the project of the potential impacts on tax revenues from construction and operation of the project.	Table 8.8-10 Section 8.8.2.3	Yes	

Adequacy Issue: Adequate _____ Inadequate **X**
 Technical Area: **Socioeconomics**
 Project Manager: **Jim McKinney**

DATA ADEQUACY WORKSHEET

Revision No. 0 Date February 11, 2000
 Technical Staff: Amanda Stennick
 Technical Senior: Dale Edwards

Project: Contra Costa Power Plant Unit 8 Project
 Docket: 00-AFC-1

SITING REGULATIONS	INFORMATION	AFC PAGE NUMBER AND SECTION NUMBER	ADEQUATE YES OR NO	INFORMATION REQUIRED TO MAKE AFC CONFORM WITH REGULATIONS
Appendix B (h) (1) (A)	Tables which identify laws, regulations, ordinances, standards, adopted local, regional, state, and federal land use plans, and permits applicable to the proposed project, and a discussion of the applicability of each. The table or matrix shall explicitly reference pages in the application wherein conformance, with each law or standard during both construction and operation of the facility is discussed;	Section 8.8.5	Yes	
Appendix B (h) (1) (B)	Tables which identify each agency with jurisdiction to issue applicable permits and approvals or to enforce identified laws, regulations, standards, and adopted local, regional, state and federal land use plans, and agencies which would have permit approval or enforcement authority, but for the exclusive authority of the commission to certify sites and related facilities.	Section 8.8.7	Yes	
Appendix B (h) (2)	A discussion of the conformity of the project with the requirements listed in subsection (h)(1)(A).	None required for Socioeconomic Resources	Yes	
Appendix B (h) (3)	The name, title, phone number, and address, if known, of an official within each agency who will serve as a contact person for the agency.	Section 8.8.6	Yes	
Appendix (h) (4)	A schedule indicating when permits outside the authority of the commission will be obtained and the steps the applicant has taken or plans to take to obtain such permits.	None required for Socioeconomic Resources	Yes	

Adequacy Issue: Adequate ☒ Inadequate ☐
 Technical Area: Soils
 Project Manager: Jim McKinney

DATA ADEQUACY WORKSHEET

Revision No. 2 Date 2/29/00
 Technical Staff: Richard Sapudar
 Technical Senior: Jim Brownell

Project: Contra Costa Power Plant Unit 8 Project
 Docket: 00-AFC-1

SITING REGULATIONS	INFORMATION	AFC PAGE NUMBER AND SECTION NUMBER	ADEQUATE YES OR NO	INFORMATION REQUIRED TO MAKE AFC CONFORM WITH REGULATIONS
Appendix B (g) (1)	...provide a discussion of the existing site conditions, the expected direct, indirect and cumulative impacts due to the construction, operation and maintenance of the project, the measures proposed to mitigate adverse environmental impacts of the project, the effectiveness of the proposed measures, and any monitoring plans proposed to verify the effectiveness of the mitigation.	8.9.1, 8.9.2, 8.2.2.1 Appendix B B1.3, B1.4, B1.5.2, B1.6.4 Appendix K	Yes	
Appendix B (g) (15) (A)	A map at a scale of 1:24,000 and written description of soil types and all agricultural land uses that will be affected by the proposed project. The description shall include:	2.2.2, Fig 2-1, Fig 8.9-1 Appendix K	Yes	
Appendix B (g) (15) (A) (i)	The depth, texture, permeability, drainage, erosion hazard rating, and land capability class of the soil; and	Tab 8.9-1	Yes	
Appendix B (g) (15) (A) (ii)	An identification of other physical and chemical characteristics of the soil necessary to allow an evaluation of soil erodibility, permeability, re-vegetation potential, and cycling of pollutants in the soil-vegetation system.	Appendix K K4.2, K5.1.2, K5.1.3, ZK5.3, K5.4, K5.5	Yes	
Appendix B (g) (15) (C)	An assessment of the effects of the proposed project on soil resources and agricultural land uses. This discussion shall include:	8.9.1, 8.9.11	Yes	
Appendix B (g) (15) (C) (i)	The quantification of accelerated soil loss due to wind and water erosion;	8.9.1.3	Yes	
Appendix B (g) (15) (C) (iii)	The effect of power plant emissions on surrounding soil-vegetation systems.	8.1.2.5, 8.1.2.6, 8.1.3	Yes	
Appendix B (h) (1) (A)	Tables which identify laws, regulations, ordinances, standards, adopted local, regional, state, and federal land use plans, and permits applicable to the proposed project, and a discussion of the applicability of each. The table or matrix shall explicitly reference pages in the application wherein conformance, with each law or standard during both construction and operation of the facility is discussed;	8.9.5 Appendix B B1.2	Yes	

Adequacy Issue: Adequate ☒ Inadequate ☐

DATA ADEQUACY WORKSHEET

Revision No. 2 Date 2/29/00

Technical Area: Soils

Project: Contra Costa Power Plant Unit 8 Project

Technical Staff: Richard Sapudar

Project Manager: Jim McKinney

Docket: 00-AFC-1

Technical Senior: Jim Brownell

SITING REGULATIONS	INFORMATION	AFC PAGE NUMBER AND SECTION NUMBER	ADEQUATE YES OR NO	INFORMATION REQUIRED TO MAKE AFC CONFORM WITH REGULATIONS
Appendix B (h) (1) (B)	Tables which identify each agency with jurisdiction to issue applicable permits and approvals or to enforce identified laws, regulations, standards, and adopted local, regional, state and federal land use plans, and agencies which would have permit approval or enforcement authority, but for the exclusive authority of the commission to certify sites and related facilities.	8.9.6	Yes	
Appendix B (h) (2)	A discussion of the conformity of the project with the requirements listed in subsection (h)(1)(A).	8.9.5, 8.9.7	Yes	
Appendix B (h) (3)	The name, title, phone number, and address, if known, of an official within each agency who will serve as a contact person for the agency.	8.9.6	Yes	
Appendix B (h) (4)	A schedule indicating when permits outside the authority of the commission will be obtained and the steps the applicant has taken or plans to take to obtain such permits.	8.9.6	Yes	

Adequacy Issue: Adequate _____ Inadequate **X**
 Technical Area: **Traffic and Transportation**
 Project Manager: **Jim McKinney**

DATA ADEQUACY WORKSHEET

Revision No. 0 Date February 18, 2000
 Technical Staff: Jim Adams
 Technical Senior: Dale Edwards

Project: Contra Costa
 Docket: 00-AFC-1

SITING REGULATIONS	INFORMATION	AFC PAGE NUMBER AND SECTION NUMBER	ADEQUATE YES OR NO	INFORMATION REQUIRED TO MAKE AFC CONFORM WITH REGULATIONS
Appendix B (g) (1)	...provide a discussion of the existing site conditions, the expected direct, indirect and cumulative impacts due to the construction, operation and maintenance of the project, the measures proposed to mitigate adverse environmental impacts of the project, the effectiveness of the proposed measures, and any monitoring plans proposed to verify the effectiveness of the mitigation.	AFC Section 8.10 Pgs. 8.10-1 through 8.10-15	Yes	
Appendix B (g) (5) (A)	A regional transportation setting, on topographic maps (scale of 1:250,000), identifying the project location and major transportation facilities. Include a reference to the transportation element of any applicable local or regional plan.	Pg. 8.10-6 Figure 8.10-2	Yes	
Appendix B (g) (5) (B)	An identification, on topographic maps at a scale of 1:24,000 and a description of existing and planned roads, rail lines, including light rail, bike trails, airports, bus routes serving the project vicinity, pipelines, and canals in the project area affected by or serving the proposed facility. For each road identified, include the following information, where applicable:	Figure 8.10-2	Yes	
Appendix B (g) (5) (B) (i)	Road classification and design capacity;	Pgs. 8.10-2 to 8.10-4	Yes	
Appendix B (g) (5) (B) (ii)	Current daily average and peak traffic counts;	Pgs. 8.10-2 to 8.10-4 Table 8.10-1, Pg. 8.10-16	Yes	
Appendix B (g) (5) (B) (iii)	Current and projected levels of service before project development, during construction, and during project operation;	Pg. 8.10-7 & 10-8 Pgs. 8.10-10 to 10-13 Tables 8.10-2 & 10-4 Pgs. 8.10-16 & 10-19	No	Provide levels of service for SR-4 and SR-160 in the general project area, and SR-4 at A Street.
Appendix B (g) (5) (B) (iv)	Weight and load limitations;	Pgs. 8.10-2 to 10.4 Table 8.10-1, Pg. 8.10-16	Yes	
Appendix B (g) (5) (B) (v)	Estimated percentage of current traffic flows for passenger vehicles and trucks; and	Table 8.10-1 Pg. 8.10-16	Yes	
Appendix B (g) (5) (B) (vi)	An identification of any road features affecting public safety.	Pg. 8.10-4 & 10-6	Yes	

Adequacy Issue: Adequate _____ Inadequate **X**

DATA ADEQUACY WORKSHEET

Revision No. 0 Date February 18, 2000

Technical Area: **Traffic and Transportation**

Project: Contra Costa

Technical Staff: Jim Adams

Project Manager: Jim McKinney

Docket: 00-AFC-1

Technical Senior: Dale Edwards

SITING REGULATIONS	INFORMATION	AFC PAGE NUMBER AND SECTION NUMBER	ADEQUATE YES OR NO	INFORMATION REQUIRED TO MAKE AFC CONFORM WITH REGULATIONS
Appendix B (g) (5) (C)	A description of any new, planned, or programmed transportation facilities in the project vicinity, including those necessary for construction and operation of the proposed project. Specify the location of such facilities on topographic maps at a scale of 1:24,000.	Figure 8.10-2 Pg. 8.10-6	No	Specify the location of the SR-4 widening from four to six lanes on Figure 8.10-2.
Appendix B (g) (5) (D)	An assessment of the construction and operation impacts of the proposed project on the transportation facilities identified. Include anticipated project-specific traffic, estimated changes to daily average and peak traffic counts, levels of service, and traffic/truck mix, and the impact of construction of any facilities identified in subsection (g)(5)(C).	Pgs. 8.10-8 to 8.13 Table 8.10-1 Pg. 8.10-16	Yes	
Appendix B (g) (5) (E)	A discussion of project-related hazardous materials to be transported to or from the project during construction and operation of the project, including the types, estimated quantities, estimated number of trips, anticipated routes, means of transportation, and any transportation hazards associated with such transport.	Pgs. 8.10 & 8.11 Pg. 8.12-3	No	Describe the types, estimated quantities, and number of trips for hazardous materials, other than aqueous ammonia, that are expected to occur during construction and operation of the project.
Appendix B (h) (1) (A)	Tables which identify laws, regulations, ordinances, standards, adopted local, regional, state, and federal land use plans, and permits applicable to the proposed project, and a discussion of the applicability of each. The table or matrix shall explicitly reference pages in the application wherein conformance, with each law or standard during both construction and operation of the facility is discussed;	Pg. 8.10-13 & 10.14 Table 8.10-5 on Pg. 8.10-20	No	Modify Table 8.10-5 to include federal and state LORS Regarding transport of hazardous materials, with explicit reference to the pages in the application wherein conformance with each law or standard during both construction and operation of the facility is discussed.

Adequacy Issue: Adequate _____ Inadequate **X**

DATA ADEQUACY WORKSHEET

Revision No. 0 Date February 18, 2000

Technical Area: **Traffic and Transportation**

Project: Contra Costa

Technical Staff: Jim Adams

Project Manager: Jim McKinney

Docket: 00-AFC-1

Technical Senior: Dale Edwards

SITING REGULATIONS	INFORMATION	AFC PAGE NUMBER AND SECTION NUMBER	ADEQUATE YES OR NO	INFORMATION REQUIRED TO MAKE AFC CONFORM WITH REGULATIONS
Appendix B (h) (1) (B)	Tables which identify each agency with jurisdiction to issue applicable permits and approvals or to enforce identified laws, regulations, standards, and adopted local, regional, state and federal land use plans, and agencies which would have permit approval or enforcement authority, but for the exclusive authority of the commission to certify sites and related facilities.	Pg. 8.10-14	No	Amend the table at the bottom of 8.10-14 to include federal, state and county agencies with jurisdiction to issue applicable permits and approvals or to enforce identified laws, regulations, standards, and adopted local, regional, state and federal land use plans, and agencies which would have permit approval or enforcement authority, but for the exclusive authority of the commission to certify sites and related facilities.
Appendix B (h) (2)	A discussion of the conformity of the project with the requirements listed in subsection (h)(1)(A).	Pg. 8.10-13 & 10-14	No	Provide a discussion of the conformity of the project with the requirements listed in subsection (h)(1)(A).
Appendix B (h) (3)	The name, title, phone number, and address, if known, of an official within each agency who will serve as a contact person for the agency.	Pg. 8.10-14 & 10-15	No	Provide the name, title, phone number, and address, if known, of an official within each state agency who will serve as a contact person for the agency.
Appendix B (h) (4)	A schedule indicating when permits outside the authority of the commission will be obtained and the steps the applicant has taken or plans to take to obtain such permits.	Pg. 8.10-15	Yes	

Adequacy Issue: Adequate ☒ Inadequate ☐
 Technical Area: T-Line Safety and Nuisance.
 Project Manager: James McKinney

DATA ADEQUACY WORKSHEET

Revision No. 1 Date Feb 29, 2000

Project: Contra Costa
 Docket: 00-AFC-1

Technical Staff: Obed Odoemelam
 Technical Senior: Greg Newhouse

SITING REGULATIONS	INFORMATION	AFC PAGE NUMBER AND SECTION NUMBER	ADEQUATE YES OR NO	INFORMATION REQUIRED TO MAKE AFC CONFORM WITH REGULATIONS
Appendix B (i) (2) (A)	A discussion of the need for the additional electric transmission lines, substations, or other equipment, the basis for selecting principal points of junction with the existing electric transmission system, and the capacity and voltage levels of the proposed lines, along with the basis for selection of the capacity and voltage levels.		NA	Refer to Transmission System Engineering Data Adequacy Worksheet.
Appendix B (i) (2) (B)	A discussion of the extent to which the proposed electric transmission facilities have been designed, planned, and routed to meet the transmission requirements created by additional generating facilities planned by the applicant or any other entity.		NA	Refer to Transmission System Engineering Data Adequacy Worksheet.
Appendix B (b) (2) (C)	A detailed description of the design, construction, and operation of any electric transmission facilities, such as power lines, substations, switchyards, or other transmission equipment, which will be constructed or modified to transmit electrical power from the proposed power plant to the load centers to be served by the facility. Such description shall include the width of rights of way and the physical and electrical characteristics of electrical transmission facilities such as towers, conductors, and insulators. This description shall include power load flow diagrams which demonstrate conformance or nonconformance with utility reliability and planning criteria at the time the facility is expected to be placed in operation and five years thereafter; and		NA	Refer to Transmission System Engineering Data Adequacy Worksheet.
Appendix B (b) (2) (D)	A description of how the route and additional transmission facilities were selected, and the consideration given to engineering constraints, environmental impacts, resource conveyance constraints, and electric transmission constraints.	Section 2.0, pages 2-48 and 2-51.	Yes	

Adequacy Issue: Adequate ☒ Inadequate ☐
 Technical Area: T-Line Safety and Nuisance.
 Project Manager: James McKinney

DATA ADEQUACY WORKSHEET

Revision No. 1 Date Feb 29, 2000
 Technical Staff: Obed Odoemelam
 Technical Senior: Greg Newhouse

Project: Contra Costa
 Docket: 00-AFC-1

SITING REGULATIONS	INFORMATION	AFC PAGE NUMBER AND SECTION NUMBER	ADEQUATE YES OR NO	INFORMATION REQUIRED TO MAKE AFC CONFORM WITH REGULATIONS
Appendix B (g) (18) (A)	The locations and a description of the existing switchyards and overhead and underground transmission lines that would be affected by the proposed project.		NA	Refer to Transmission System Engineering Data Adequacy Worksheet.
Appendix B (g) (18) (B)	An estimate of the existing electric and magnetic fields from the facilities listed in (A) above and the future electric and magnetic fields that would be created by the proposed project, calculated at the property boundary of the site and at the edge of the rights of way for any transmission line. Also provide an estimate of the radio and television interference that could result from the project.	Section 2.0, pages 2-51 and 2-52.	Yes	
Appendix B (g) (18) (C)	Specific measures proposed to mitigate identified impacts, including a description of measures proposed to eliminate or reduce radio and television interference, and all measures taken to reduce electric and magnetic field levels.	Section 2.0, page 2-52.	Yes	
Appendix B (h) (1) (A)	Tables which identify laws, regulations, ordinances, standards, adopted local, regional, state, and federal land use plans, and permits applicable to the proposed project, and a discussion of the applicability of each. The table or matrix shall explicitly reference pages in the application wherein conformance, with each law or standard during both construction and operation of the facility is discussed;	Section 2.0, page 2-51	Yes	
Appendix B (h) (1) (B)	Tables which identify each agency with jurisdiction to issue applicable permits and approvals or to enforce identified laws, regulations, standards, and adopted local, regional, state and federal land use plans, and agencies which would have permit approval or enforcement authority, but for the exclusive authority of the commission to certify sites and related facilities.	Section 2.0, page 2-51. Section 8.6, page 8.6-11. Section 8.7, pages 8.7-26 and 8.7 28.	Yes	

Adequacy Issue: Adequate ☒ Inadequate ☐
 Technical Area: T-Line Safety and Nuisance.
 Project Manager: James McKinney

DATA ADEQUACY WORKSHEET

Revision No. 1 Date Feb 29, 2000
 Technical Staff: Obed Odoemelam
 Technical Senior: Greg Newhouse

Project: Contra Costa
 Docket: 00-AFC-1

SITING REGULATIONS	INFORMATION	AFC PAGE NUMBER AND SECTION NUMBER	ADEQUATE YES OR NO	INFORMATION REQUIRED TO MAKE AFC CONFORM WITH REGULATIONS
Appendix B (h) (2)	A discussion of the conformity of the project with the requirements listed in subsection (h)(1)(A).	Section 2.0, page 2-52. Appendix B3.	Yes	
Appendix B (h) (3)	The name, title, phone number, and address, if known, of an official within each agency who will serve as a contact person for the agency.	NA		
Appendix B (h) (4)	A schedule indicating when permits outside the authority of the commission will be obtained and the steps the applicant has taken or plans to take to obtain such permits.	NA		

Adequacy Issue: Adequate _____ Inadequate **X**
 Technical Area: Transmission System Eng.
 Project Manager: James McKinney

DATA ADEQUACY WORKSHEET

Revision No. 2 Date 2/17/2000
 Technical Staff: Charlie Vartanian
 Technical Senior: Al McCuen

Project: Contra Costa Power Plant Unit 8
 Docket: 00-AFC-1

SITING REGULATIONS	INFORMATION	AFC PAGE NUMBER AND SECTION NUMBER	ADEQUATE YES OR NO	INFORMATION REQUIRED TO MAKE AFC CONFORM WITH REGULATIONS
Appendix B (i) (2) (A)	A discussion of the need for the additional electric transmission lines, substations, or other equipment, the basis for selecting principal points of junction with the existing electric transmission system, and the capacity and voltage levels of the proposed lines, along with the basis for selection of the capacity and voltage levels.	pp.2-15thru18, sect. 2.2.4 pp. 2-48thru51, sect. 2.2.13 p. 5-1, section 5.0 p. 9-1, section 9.1	Yes	
Appendix B (i) (2) (B)	A discussion of the extent to which the proposed electric transmission facilities have been designed, planned, and routed to meet the transmission requirements created by additional generating facilities planned by the applicant or any other entity.	p. 5-1, section 5.0	Yes	
Appendix B (b) (2) (C)	A detailed description of the design, construction, and operation of any electric transmission facilities, such as power lines, substations, switchyards, or other transmission equipment, which will be constructed or modified to transmit electrical power from the proposed power plant to the load centers to be served by the facility. Such description shall include the width of rights of way and the physical and electrical characteristics of electrical transmission facilities such as towers, conductors, and insulators. This description shall include power load flow diagrams which demonstrate conformance or nonconformance with utility reliability and planning criteria at the time the facility is expected to be placed in operation and five years thereafter; and	p. 5-1, section 5.0 Appendix A	No	1) Provide or reference the transmission planning criteria used to assess the downstream transmission system thermal loading impacts analyzed in the Preliminary Interconnection Study power flow analysis. 2) Provide the rating basis, e.g. normal, emergency short term, emergency long term, for the percent line loading values shown for contingency cases in Preliminary Interconnection Study section 4.0, "Analysis Results". 3) Provide load flow results for contingency cases with no modification of plant generation, or cite the existing Operating Procedures which would facilitate this action. Response is needed for those Preliminary Facility Study load flow contingency cases in which generation was adjusted.
Appendix B (b) (2) (D)	A description of how the route and additional transmission facilities were selected, and the consideration given to engineering constraints, environmental impacts, resource conveyance constraints, and electric transmission constraints.	p. 5-1, section 5.0 p. 9-1, section 9.1	Yes	

Adequacy Issue: Adequate _____ Inadequate **X**
 Technical Area: Transmission System Eng.
 Project Manager: James McKinney

DATA ADEQUACY WORKSHEET

Revision No. 2 Date 2/17/2000
 Technical Staff: Charlie Vartanian
 Technical Senior: Al McCuen

Project: Contra Costa Power Plant Unit 8
 Docket: 00-AFC-1

SITING REGULATIONS	INFORMATION	AFC PAGE NUMBER AND SECTION NUMBER	ADEQUATE YES OR NO	INFORMATION REQUIRED TO MAKE AFC CONFORM WITH REGULATIONS
Appendix B (g) (18) (A)	The locations and a description of the existing switchyards and overhead and underground transmission lines that would be affected by the proposed project.	pp.2-15thru18, sect. 2.2.4 pp. 2-48thru51, sect. 2.2.13 p. 5-1, section 5.0	No	Provide an electrical single line diagram illustrating PG&E's Contra Costa 230 kV switchyard line & bus arrangement with the proposed interconnection of the project.
Appendix B (g) (18) (B)	An estimate of the existing electric and magnetic fields from the facilities listed in (A) above and the future electric and magnetic fields that would be created by the proposed project, calculated at the property boundary of the site and at the edge of the rights of way for any transmission line. Also provide an estimate of the radio and television interference that could result from the project.		NA	Refer to Transmission Line Safety and Nuisance Data Adequacy Worksheet.
Appendix B (g) (18) (C)	Specific measures proposed to mitigate identified impacts, including a description of measures proposed to eliminate or reduce radio and television interference, and all measures taken to reduce electric and magnetic field levels.		NA	Refer to Transmission Line Safety and Nuisance Data Adequacy Worksheet.
Appendix B (h) (1) (A)	Tables which identify laws, regulations, ordinances, standards, adopted local, regional, state, and federal land use plans, and permits applicable to the proposed project, and a discussion of the applicability of each. The table or matrix shall explicitly reference pages in the application wherein conformance, with each law or standard during both construction and operation of the facility is discussed;	p. 2-51, section 2.2.13 Appendix B section 3	Yes	
Appendix B (h) (1) (B)	Tables which identify each agency with jurisdiction to issue applicable permits and approvals or to enforce identified laws, regulations, standards, and adopted local, regional, state and federal land use plans, and agencies which would have permit approval or enforcement authority, but for the exclusive authority of the commission to certify sites and related facilities.	p. 2-51, section 2.2.13 Appendix B section 3	Yes	

Adequacy Issue: Adequate _____ Inadequate **X**
 Technical Area: Transmission System Eng.
 Project Manager: James McKinney

DATA ADEQUACY WORKSHEET

Revision No. 2 Date 2/17/2000
 Technical Staff: Charlie Vartanian
 Technical Senior: Al McCuen

Project: Contra Costa Power Plant Unit 8
 Docket: 00-AFC-1

SITING REGULATIONS	INFORMATION	AFC PAGE NUMBER AND SECTION NUMBER	ADEQUATE YES OR NO	INFORMATION REQUIRED TO MAKE AFC CONFORM WITH REGULATIONS
Appendix B (h) (2)	A discussion of the conformity of the project with the requirements listed in subsection (h)(1)(A).	p. 2-51, section 2.2.13	Yes	
Appendix B (h) (3)	The name, title, phone number, and address, if known, of an official within each agency who will serve as a contact person for the agency.		N/A	
Appendix B (h) (4)	A schedule indicating when permits outside the authority of the commission will be obtained and the steps the applicant has taken or plans to take to obtain such permits.		N/A	

Adequacy Issue: Adequate _____ Inadequate **X**
 Technical Area: **Visual Resources**
 Project Manager: **Jim McKinney**

DATA ADEQUACY WORKSHEET

Revision No. 1 Date Feb. 24, 2000
 Technical Staff: Gary Walker
 Technical Senior: Dale Edwards

Project: Contra Costa Power Plant Unit 8
 Docket: 00-AFC-1

SITING REGULATIONS	INFORMATION	AFC PAGE NUMBER AND SECTION NUMBER	ADEQUATE YES OR NO	INFORMATION REQUIRED TO MAKE AFC CONFORM WITH REGULATIONS
Appendix B (g) (1)	...provide a discussion of the existing site conditions, the expected direct, indirect and cumulative impacts due to the construction, operation and maintenance of the project, the measures proposed to mitigate adverse environmental impacts of the project, the effectiveness of the proposed measures, and any monitoring plans proposed to verify the effectiveness of the mitigation.	Section 8.11.1.4.1, pp.8.11-5 through 8.11-7; Sections 8.11.2 through 8.11.4, pp.8.11-19 through 8.11-27.	No	Submittal of information requested in sections (g) (6) (A) (ii), (g) (6) (C), and (g) (6) (E) below will satisfy this requirement..
Appendix B (g) (6) (A)	Descriptions of the existing visual setting of the vicinity of the project, the region that can be seen from the vicinity of the project, and the proposed project site. Include:	Section 8.11.1.2, pp.8.11-1 through 8.11-3 and pp.8.11-5 through 8.11-13.	Yes	
Appendix B (g) (6) (A) (i)	Topographic maps at a scale of 1:24,000 of the areas from which the project may be seen, identification of the view areas most sensitive to the potential visual impacts of the project, and the locations where photographs were taken for (g)(6)(E);	Figures 8.11-1 through 8.11-3.	Yes	
Appendix B (g) (6) (A) (ii)	Elevations of any existing structures on the site; and	Not provided.	No	Please provide elevations of the existing facilities on the site (Units 1-7 and related facilities).
Appendix B (g) (6) (A) (iii)	The visual properties of the topography, vegetation, and any modifications to the landscape as a result of human activities.	Section 8.11.1.4, pp.8.11-5 through 8.11-13.	Yes	

Adequacy Issue: Adequate _____ Inadequate **X**
 Technical Area: **Visual Resources**
 Project Manager: **Jim McKinney**

DATA ADEQUACY WORKSHEET

Revision No. 1 Date Feb. 24, 2000
 Technical Staff: Gary Walker
 Technical Senior: Dale Edwards

Project: Contra Costa Power Plant Unit 8
 Docket: 00-AFC-1

SITING REGULATIONS	INFORMATION	AFC PAGE NUMBER AND SECTION NUMBER	ADEQUATE YES OR NO	INFORMATION REQUIRED TO MAKE AFC CONFORM WITH REGULATIONS
Appendix B (g) (6) (B)	An assessment of the visual quality of those areas that will be impacted by the proposed project.	Section 8.11.1.4.2, pp. 8.11-7 through 8.11-12.	Yes	
Appendix B (g) (6) (C)	After discussions with staff and community residents who live in close proximity to the proposed project, identify the scenic corridors and any visually sensitive areas potentially affected by the proposed project, including recreational and residential areas. Indicate the approximate number of people using each of these sensitive areas and the estimated number of residences with views of the project. For purposes of this section, a scenic corridor is that area of land with scenic natural beauty, adjacent to and visible from a linear feature, such as a road, or river.	Section 8.11.1.4.2, pp.8.11-7 through 8.11-12.	No	Please provide estimates of user levels at Antioch Regional Shoreline Park (KOP #1). Please provide estimates of user levels at the parks referred to in the area of KOP #2.
Appendix B (g) (6) (D)	A description of the dimensions, color, and material of each major visible component of the project.	Figures 2-2, 2-3, and 2-9; Section 8.11.2.2, pp.8.11-19 through 8.11-20.	Yes	
Appendix B (g) (6) (E)	Full-page color photographic reproductions of the existing site, and full-page color simulations of the proposed project in the existing setting from each location representative of the view areas most sensitive to the potential visual impacts of the project.	Figures 8.11-4 through 8.11-8.	No	Please provide <u>full-page</u> color photographic reproductions of the existing site from KOPs #1 through #8. Please provide full-page color simulations of the proposed project from KOPs #3, 5, 6, 7, and 8.
Appendix B (g) (6) (F)	An assessment of the visual impacts of the project, including light and glare, and visible plumes.	Section 8.11.2.3, pp.8.11-20 through 8.11-26.	Yes	

Adequacy Issue: Adequate _____ Inadequate **X**
 Technical Area: **Visual Resources**
 Project Manager: **Jim McKinney**

DATA ADEQUACY WORKSHEET

Revision No. 1 Date Feb. 24, 2000
 Technical Staff: Gary Walker
 Technical Senior: Dale Edwards

Project: Contra Costa Power Plant Unit 8
 Docket: 00-AFC-1

SITING REGULATIONS	INFORMATION	AFC PAGE NUMBER AND SECTION NUMBER	ADEQUATE YES OR NO	INFORMATION REQUIRED TO MAKE AFC CONFORM WITH REGULATIONS
Appendix B (h) (1) (A)	Tables which identify laws, regulations, ordinances, standards, adopted local, regional, state, and federal land use plans, and permits applicable to the proposed project, and a discussion of the applicability of each. The table or matrix shall explicitly reference pages in the application wherein conformance, with each law or standard during both construction and operation of the facility is discussed;	Section 8.11.1.4.3, pp.8.11-13 through 8.11-15; Table 8.11-1.	No	Please provide references to specific locations in the application wherein conformance with each law or standard is discussed.
Appendix B (h) (1) (B)	Tables which identify each agency with jurisdiction to issue applicable permits and approvals or to enforce identified laws, regulations, standards, and adopted local, regional, state and federal land use plans, and agencies which would have permit approval or enforcement authority, but for the exclusive authority of the commission to certify sites and related facilities.	Section 8.11.6, p.8.11-28.	No	Please include the appropriate departments that address visual resources for Contra Costa County and the City of Antioch.
Appendix B (h) (2)	A discussion of the conformity of the project with the requirements listed in subsection (h)(1)(A).	Not provided.	No	Please provide a discussion of the conformity of the project with applicable laws, regulations, ordinances, standards, and adopted land use plans.
Appendix B (h) (3)	The name, title, phone number, and address, if known, of an official within each agency who will serve as a contact person for the agency.	Section 8.11.6, p.8.11-28.	No	Please provide the name, title, phone number, and address of contact persons for Contra Costa County and the City of Antioch.
Appendix B (h) (4)	A schedule indicating when permits outside the authority of the commission will be obtained and the steps the applicant has taken or plans to take to obtain such permits.	Section 8.11.7, p.8.11-28.	Yes	

Adequacy Issue: Adequate ☒ Inadequate _____
 Technical Area: Waste Management
 Project Manager: James McKinney

DATA ADEQUACY WORKSHEET

Revision No. 0 Date February 10, 2000
 Technical Staff: Mike Ringer
 Technical Senior: Greg Newhouse

Project: Contra Costa Power Plant Unit 8 Project
 Docket: 00-AFC-1

SITING REGULATIONS	INFORMATION	AFC PAGE NUMBER AND SECTION NUMBER	ADEQUATE YES OR NO	INFORMATION REQUIRED TO MAKE AFC CONFORM WITH REGULATIONS
Appendix B (b) (1) (C)	A detailed description of the design, construction and operation of the facilities, specifically including the power generation, cooling, water supply and treatment, waste handling and control, pollution control, fuel handling, and safety, emergency and auxiliary systems, and fuel types and fuel use scenarios; and	sec. 8.13.2.1 sec. 8.13.4.1 sec. 8.13.4.2	YES	
Appendix B (e) (2)	A discussion of how facility closure will be accomplished in the event of premature or unexpected cessation of operations.	sec. 4.1 sec. 8.13.4.4	YES	
Appendix B (g) (1)	...provide a discussion of the existing site conditions, the expected direct, indirect and cumulative impacts due to the construction, operation and maintenance of the project, the measures proposed to mitigate adverse environmental impacts of the project, the effectiveness of the proposed measures, and any monitoring plans proposed to verify the effectiveness of the mitigation.	sec. 8.13.2.1.1 sec. 8.13.2.1.2 sec. 8.13.4.1 sec. 8.13.4.2 sec. 8.13.4.3 Table 8.13-3	YES	
Appendix B (g) (12) (A)	A Phase I Environmental Site Assessment for the proposed power plant site using methods prescribed by the American Society for Testing and Materials (ASTM) document entitled "Standard Practice for Environmental Site Assessments: Phase 1 Environmental Site Assessment Process" (Designation: E 1527-93, May 1993), which is incorporated by reference in its entirety; or an equivalent method agreed upon by the applicant and the CEC Staff that provides similar documentation of the potential level and extent of site contamination.	sec. 8.13.1 Appendix K	YES	
Appendix B (g) (12) (B)	A description of each waste stream estimated to be generated during project construction and operation, including origin, hazardous or nonhazardous classification pursuant to Title 22, California Code of Regulations, § 66261.20 et seq., chemical composition, estimated annual weight or volume generated, and estimated frequency of generation.	sec. 8.13.2.1.1 sec. 8.13.2.1.2 Table 8.13-3	YES	

Adequacy Issue: Adequate ☒ Inadequate _____
 Technical Area: Waste Management
 Project Manager: James McKinney

DATA ADEQUACY WORKSHEET

Revision No. 0 Date February 10, 2000
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 Technical Senior: Greg Newhouse

Project: Contra Costa Power Plant Unit 8 Project
 Docket: 00-AFC-1

SITING REGULATIONS	INFORMATION	AFC PAGE NUMBER AND SECTION NUMBER	ADEQUATE YES OR NO	INFORMATION REQUIRED TO MAKE AFC CONFORM WITH REGULATIONS
Appendix B (g) (12) (C)	A description of all waste disposal sites which may feasibly be used for disposal of project wastes. For each site, include the name, location, classification under Title 23, California Code of Regulations, § 2530 et seq., the daily or annual permitted capacity, daily or annual amounts of waste currently being accepted, the estimated closure date and remaining capacity, and a description of any enforcement action taken by local or state agencies due to waste disposal activities at the site.	sec. 8.13.2.2 Table 8.13-1 Table 8.13-2	YES	
Appendix B (g) (12) (D)	A description of management methods for each waste stream, including methods used to minimize waste generation, length of on- and off-site waste storage, re-use and recycling opportunities, waste treatment methods used, and use of contractors for treatment.	sec. 8.13.2.1.1 sec. 8.13.2.1.2 sec. 8.13.4.1 sec. 8.13.4.2 Table 8.13-3	YES	
Appendix B (h) (1) (A)	Tables which identify laws, regulations, ordinances, standards, adopted local, regional, state, and federal land use plans, and permits applicable to the proposed project, and a discussion of the applicability of each. The table or matrix shall explicitly reference pages in the application wherein conformance, with each law or standard during both construction and operation of the facility is discussed;	Table 8.13-4	YES	
Appendix B (h) (1) (B)	Tables which identify each agency with jurisdiction to issue applicable permits and approvals or to enforce identified laws, regulations, standards, and adopted local, regional, state and federal land use plans, and agencies which would have permit approval or enforcement authority, but for the exclusive authority of the commission to certify sites and related facilities.	Table 8.13-4	YES	
Appendix B (h) (2)	A discussion of the conformity of the project with the requirements listed in subsection (h)(1)(A).	sec. 8.13.2 sec. 8.13.4	YES	

Adequacy Issue: Adequate ☒ Inadequate ☐
 Technical Area: Waste Management
 Project Manager: James McKinney

DATA ADEQUACY WORKSHEET

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Revision No. 0 Date February 10, 2000
 Technical Staff: Mike Ringer
 Technical Senior: Greg Newhouse

SITING REGULATIONS	INFORMATION	AFC PAGE NUMBER AND SECTION NUMBER	ADEQUATE YES OR NO	INFORMATION REQUIRED TO MAKE AFC CONFORM WITH REGULATIONS
Appendix B (h) (3)	The name, title, phone number, and address, if known, of an official within each agency who will serve as a contact person for the agency.	sec. 8.13.6	YES	
Appendix B (h) (4)	A schedule indicating when permits outside the authority of the commission will be obtained and the steps the applicant has taken or plans to take to obtain such permits.	sec. 8.13.7	YES	

Adequacy Issue: Adequate _____ Inadequate **X**
 Technical Area: **Water Resources**
 Project Manager: **Jim McKinney**

DATA ADEQUACY WORKSHEET

Revision No. 2 Date 2/29/00
 Technical Staff: Rich Sapudar
 Technical Senior: Jim Brownell

Project: Contra Costa Power Plant Unit 8 Project
 Docket: 00-AFC-1

SITING REGULATIONS	INFORMATION	AFC PAGE NUMBER AND SECTION NUMBER	ADEQUATE YES OR NO	INFORMATION REQUIRED TO MAKE AFC CONFORM WITH REGULATIONS
Appendix B (g) (1)	...provide a discussion of the existing site conditions, the expected direct, indirect and cumulative impacts due to the construction, operation and maintenance of the project, the measures proposed to mitigate adverse environmental impacts of the project, the effectiveness of the proposed measures, and any monitoring plans proposed to verify the effectiveness of the mitigation.	8.14.1-4, 1.0, Fig 2-1-2, Fig 1-1-3, 2.2.1, 2.2.8, 2.2.8.1-2, Tab 2-7, 2.2.14, 2.45, 8.2, 8.2.1.5, 8.2.1.7, 8.4.1-2, 8.14, 8.14.1.2, 8.14.1.2.7-8, 8.14.2, 8.14.4.1, 8.14.4.2, Appendices D and K	No	Please provide NPDES/WDRs monitoring plans from CVRWQCB for chemical constituents of wastewater discharge and thermal plume. Discussion and summary of existing compliance self-monitoring data related to the existing permit(s), along with documentation and explanation of any exceedances, violations, or enforcement actions.
Appendix B (g) (14) (A)	All information required by the Regional Water Quality Control Board in the region where the project will be located to apply for:	2.2.6.2, 8.14, 2.45, 8.2.2.2		
Appendix B (g) (14) (A) (i)	Waste Discharge Requirements; and	8.14.1.2.8, 8.14.7.1.1	No	Provide a copy of the existing WDRs that apply to the project, with a discussion of any violations or exceedances. Provide a summary of at least 1 year of self-monitoring compliance data, including the constituents monitored, monthly average concentrations, monthly range of concentrations, and the monthly average volume and monthly range of volume of discharge.
Appendix B (g) (14) (A) (ii)	a National Pollutant Discharge Elimination System Permit.	2.2.6.2, 8.14.7.1.1	No	Provide a copy of the existing NPDES permit (CA0004863) that applies to the project, with a discussion of any violations or exceedances. Provide a summary of at least 1 year of self-monitoring compliance data, including the constituents monitored, monthly average concentrations, monthly range of concentrations, and the monthly average volume and monthly range of volume of discharge. Provide the same information for thermal data. Provide a copy of the Stormwater Prevention Plan (PG&E, 1996), and a discussion of permit effluent limits.
Appendix B (g) (14) (B)	A description of the hydrologic setting of the project. The information shall describe, in writing and on maps at a scale of 1:24,000, the chemical and physical characteristics of the following water bodies that may be affected by the proposed project:	2.2.6.2, 8.14, Fig 8.14-1, Appendix K	Yes	

Adequacy Issue: Adequate _____ Inadequate **X**

DATA ADEQUACY WORKSHEET

Revision No. 2 Date 2/29/00

Technical Area: **Water Resources**

Project: Contra Costa Power Plant Unit 8 Project

Technical Staff: Rich Sapudar

Project Manager: Jim McKinney

Docket: 00-AFC-1

Technical Senior: Jim Brownell

SITING REGULATIONS	INFORMATION	AFC PAGE NUMBER AND SECTION NUMBER	ADEQUATE YES OR NO	INFORMATION REQUIRED TO MAKE AFC CONFORM WITH REGULATIONS
Appendix B (g) (14) (B) (i)	Ground water bodies and related geologic structures;	8.14.1, 8.14.1.1 – i.14.1.12 Appendix K	Yes	
Appendix B (g) (14) (B) (ii)	Surface water bodies; and	2.4.5, 8.14.1.2	Yes	
Appendix B (g) (14) (B) (iii)	Water inundation zones, such as the 100-year flood plain and tsunami run-up zones.	2.2.14.1, 8.14	Yes	
Appendix B (g) (14) (C)	A description of the water to be used and discharged by the project. This information shall include:	2.2.6.1, 2.2.6.2, 2.2.7, 2.4.5, 7.0, 8.2.1.5, 8.2.2.2, 8.14	No	Please provide a discussion of the riparian water right to San Joaquin River water for project use, including date(s) of acquisition and conditions or limitations on use.
Appendix B (g) (14) (C) (i)	Source of the water and the rationale for its selection, and if fresh water is to be used for power plant cooling purposes, a discussion of all other potential sources and an explanation why these sources were not feasible;	2.2.6, 2.2.6.1, 2.2.6.4, 7.0, 8.2.1.7, 8.14.1.2, 8.14.1.2.7-8, 9.6, Tab 9-1, Tab 9-2	No	Identify which other power plants will use Delta Diablo Sanitation District's wastewater.
Appendix B (g) (14) (C) (ii)	The physical and chemical characteristics of the source and discharge water;	2.2.6.1, 2.2.6.2, 2.2.6.3, 2.2.7, Tab 2-7, 2.2.8.2.2, 8.13.2.1.2, 8.14.1.2, 8.14.1.2.2-4, 8.14.1.2.7-8, 8.14.2.2, Tab 8.14-5	No	Provide a chemical analysis of the water to be supplied by the City of Antioch. Metals and trace elements should be analyzed using an analytical method capable of attaining detection limits comparable with U.S. EPA Method 200.8 (Inductively Coupled Plasma – Mass Spectrometry); all analytes analyzed by the method should be reported. Provide the same analytical water quality data for the San Joaquin River water to be used for cooling. Require estimated concentration of San Joaquin River water constituents in the cooling wastewater discharge after 2 cycles of concentration in the Unit 8 cooling towers both before and after mixing with Unit 6 and 7 discharges. Recent water quality analytical results should be provided for both the San Joaquin River source water, the cooling water discharge, and the wastewater discharge from the wastewater treatment plant, and should cover at least an interval of 1 year.

Adequacy Issue: Adequate _____ Inadequate **X**

Technical Area: **Water Resources**

Project Manager: **Jim McKinney**

DATA ADEQUACY WORKSHEET

Project: **Contra Costa Power Plant Unit 8 Project**

Docket: **00-AFC-1**

Revision No. **2** Date **2/29/00**

Technical Staff: **Rich Sapudar**

Technical Senior: **Jim Brownell**

SITING REGULATIONS	INFORMATION	AFC PAGE NUMBER AND SECTION NUMBER	ADEQUATE YES OR NO	INFORMATION REQUIRED TO MAKE AFC CONFORM WITH REGULATIONS
Appendix B (g) (14) (C) (iii)	Average and maximum daily and annual water demand and waste water discharge for both the construction and operation phases of the project; and	1.0, 2.2.6, Tab 2-5, 2.2.6.1-2, 2.2.6.4, 2.2.8.2.2., Tab 2-8, 2.4.5, 8.14.1.2.7-8	No	Provide more detail on water demand/use and wastewater discharge which considers the intermittent operation of existing Units 6 and 7 on the water requirements and wastewater/cooling water discharge for Unit 8.
Appendix B (g) (14) (C) (iv)	A description of all facilities to be used in water conveyance, treatment, and discharge. Include a water mass balance diagram.	1.0, Fig 2-7, Tab 2-5, 2.2.6.1-4, 2.2.7, 2.2.8.2.2, Tab 2-8, 2.4.5, 8.2.1.7, 8.12.2.2.1, 8.14.1.2.7-8, 8.14.1.2.8, 8.14.2.2, 8.14.4.1	Yes	
Appendix B (g) (14) (D)	A description of pre-, and post-construction runoff and drainage patterns, including:	see Facility Design		
Appendix B (g) (14) (D) (i)	Precipitation and storm runoff patterns; and	see Facility Design		
Appendix B (g) (14) (D) (ii)	Drainage facilities and design criteria.	see Facility Design		
Appendix B (g) (14) (E)	An assessment of the effects of the proposed project on water resources. This discussion shall include:	2.2.6.2, 8.14.1.2.8, 8.14.2, 9.6	Yes	
Appendix B (g) (14) (E) (i)	The effects of project demand on the water supply and other users of this source;	2.4.5, 8.14.1	Yes	
Appendix B (g) (14) (E) (ii)	The effects of construction activities and plant operation on water quality; and	2.2.1, 2.2.14.1, 8.14.2.1, 8.4.7, 8.14.2.2, 8.14.4.1-2	Yes	
Appendix B (g) (14) (iii)	The effects of the project on the 100-year flood plain or other water inundation zones.	see Facility Design		
Appendix B (h) (1) (A)	Tables which identify laws, regulations, ordinances, standards, adopted local, regional, state, and federal land use plans, and permits applicable to the proposed project, and a discussion of the applicability of each. The table or matrix shall explicitly reference pages in the application wherein conformance, with each law or standard during both construction and operation of the facility is discussed;	Tab 8.14.6	Yes	

Adequacy Issue: Adequate _____ Inadequate **X**

DATA ADEQUACY WORKSHEET

Revision No. 2 Date 2/29/00

Technical Area: Water Resources

Project: Contra Costa Power Plant Unit 8 Project

Technical Staff: Rich Sapudar

Project Manager: Jim McKinney

Docket: 00-AFC-1

Technical Senior: Jim Brownell

SITING REGULATIONS	INFORMATION	AFC PAGE NUMBER AND SECTION NUMBER	ADEQUATE YES OR NO	INFORMATION REQUIRED TO MAKE AFC CONFORM WITH REGULATIONS
Appendix B (h) (1) (B)	Tables which identify each agency with jurisdiction to issue applicable permits and approvals or to enforce identified laws, regulations, standards, and adopted local, regional, state and federal land use plans, and agencies which would have permit approval or enforcement authority, but for the exclusive authority of the commission to certify sites and related facilities.	Tab 8.14.6	Yes	
Appendix B (h) (2)	A discussion of the conformity of the project with the requirements listed in subsection (h)(1)(A).	8.13.5.2, 8.14.5.1-3	Yes	
Appendix B (h) (3)	The name, title, phone number, and address, if known, of an official within each agency who will serve as a contact person for the agency.	8.14.6	No	Provide City of Antioch, Contra Costa County, and State Water Resources Control Board contact personnel names and telephone numbers.
Appendix B (h) (4)	A schedule indicating when permits outside the authority of the commission will be obtained and the steps the applicant has taken or plans to take to obtain such permits.	8.14.7	No	Provide a schedule for NPDES permit from CVRWQCB for the stormwater discharges.

Adequacy Issue: Adequate _____ Inadequate **x**

DATA ADEQUACY WORKSHEET

Revision No. 0 Date 2/11/99

Technical Area: **Worker Safety**

Project: Contra Costa

Technical Staff: Strand

Project Manager: Jim McKinney

Docket: 00-AFC-1

Technical Senior: na

SITING REGULATIONS	INFORMATION	AFC PAGE NUMBER AND SECTION NUMBER	ADEQUATE YES OR NO	INFORMATION REQUIRED TO MAKE AFC CONFORM WITH REGULATIONS
Appendix B (g) (1)	...provide a discussion of the existing site conditions, the expected direct, indirect and cumulative impacts due to the construction, operation and maintenance of the project, the measures proposed to mitigate adverse environmental impacts of the project, the effectiveness of the proposed measures, and any monitoring plans proposed to verify the effectiveness of the mitigation.	P.8.7.1 – 8.7.3	Yes	
Appendix B (g) (11) (A)	A description of the safety training programs, which will be, required for construction and operation personnel.	P.8.7.8 – 8.7.10 Tables 8.7.4 & 8.7.5	Yes	
Appendix B (g) (11) (B)	A complete description of the fuel handling system and the fire suppression system.	P2-19 to 2-23 P 8.7-10 to 8.7-14	Yes	
Appendix B (g) (11) (C)	Provide draft outlines of the Construction Health and Safety Program and the Operation Health and Safety Program, as follows:			
	Construction Health and Safety Program: * Injury and Illness Prevention Plan (8 Cal. Code Regs., § 1509);	P.8.7-2 " - 3	Yes	
	* Fire Protection and Prevention Plan (8 Cal. Code Regs., § 1920);	P.8.7-10, 11,12		
	* Personal Protective Equipment Program (8 Cal. Code Regs., §§ 1514-1522)	P.8.7-3 Table 8.7-2		
	Operation Health and Safety Program: * Injury and Illness Prevention Program (8 Cal. Code Regs., § 3203);	P.8.7-5	Yes	
	* Fire Prevention Plan (8 Cal. Code Regs., § 3221);	P.8.7-12,13,14		
	* Emergency Action Plan (8 Cal. Code Regs., § 3220);	8.7-6 Table 8.7-3		
	* Personal Protective Equipment Program (8 Cal. Code Regs., §§ 3401-3411).	P.8.7-7 Table 8.7-2		

Adequacy Issue: Adequate _____ Inadequate **x**

DATA ADEQUACY WORKSHEET

Revision No. 0 Date 2/11/99

Technical Area: **Worker Safety**

Project: Contra Costa

Technical Staff: Strand

Project Manager: Jim McKinney

Docket: 00-AFC-1

Technical Senior: na

SITING REGULATIONS	INFORMATION	AFC PAGE NUMBER AND SECTION NUMBER	ADEQUATE YES OR NO	INFORMATION REQUIRED TO MAKE AFC CONFORM WITH REGULATIONS
Appendix B (h) (1) (A)	Tables which identify laws, regulations, ordinances, standards, adopted local, regional, state, and federal land use plans, and permits applicable to the proposed project, and a discussion of the applicability of each. The table or matrix shall explicitly reference pages in the application wherein conformance, with each law or standard during both construction and operation of the facility is discussed;	Table 8.7-6 Reference to pages	No	Provide explicit reference in Table 8.7.6 to pages or sub-sections in the AFC where conformance with LORS is discussed.
Appendix B (h) (1) (B)	Tables which identify each agency with jurisdiction to issue applicable permits and approvals or to enforce identified laws, regulations, standards, and adopted local, regional, state and federal land use plans, and agencies which would have permit approval or enforcement authority, but for the exclusive authority of the commission to certify sites and related facilities.	P. 8.7-14-15	Yes	
Appendix B (h) (2)	A discussion of the conformity of the project with the requirements listed in subsection (h)(1)(A).	P.8.7-2 P.8.7-6 -3 -7 -12 -4 -8 -13 -5 -11 -14	Yes	
Appendix B (h) (3)	The name, title, phone number, and address, if known, of an official within each agency who will serve as a contact person for the agency.	P.8.7-4	Yes	
Appendix B (h) (4)	A schedule indicating when permits outside the authority of the commission will be obtained and the steps the applicant has taken or plans to take to obtain such permits.	P.8.7-16	Yes	